

	b .	

1. Battery in the electric cir	cuit.	
B] What is the function of		
	b. indirect injuries.	c. both of them.
 Falling from top of ladde a. direct injuries. 		
a. pulling force. 4. Falling from top of ladd.	b. osmosis.	c. selective permeability.
		to root hairs by
a. touch naked wire. c. (a) and (b).	b. touch electric mac	
	k you should not	
a. total solar	b. total lunar	c. partial solar
4. [A] Choose the correct an 1. During eclips	swer: e we can see a part of th	e sunlight.
2. We use coal holder a	Ithough it has not mecha	nical benefit.
[B] Give reasons for:	one machine to one socke	et causes electric fire.
2. The type of levers we resistance force arm 3. The way of connecting decrease by increase 4. The process that process the process that process that process that process the proc	hich effort force arm is shown. on of light bulbs where in	the water and solutes
1. One of the danger of	of electricity that causes the	1

provide a commence de la commence de



2. When the electric circuit is closed, an electric cut through it.	rrent will pass
2. When the electric circuit is closed, an electric curthrough it. 3. The lunar eclipse can last for seven minutes and the stoma is surrounded by 3 guard cells.	accords only.
2 When the electric circuit is on the and	d few second
through it.	1
The lunar eclipse can last to a guard cells.	
3. The lunar eclipse can last for sever. 3. The lunar eclipse can last for sever. 4. The stoma is surrounded by 3 guard cells. 4. The stoma is surrounded of:	
4. The storm	
[B] Mention one lutte electric circuit.	
[B] Mention one function of the street of th	
2. Levers.	
[A] Complete the following sentences: 1 is the most popular type of levers in out 1 is the most popular bulb is filled with at the start of	r daily life.
[A] Complete the following sentences: 1	gas.
[A] Complete the most popular type	the total lunar eclipse.
[A] Complete the following 1	
2. The moon is coloured in and	
2. The glass build of the action and a trice of the moon is coloured in	
4. Any production ?	
[B] What happen if ? 1. You insert a metallic bar in an electric socket.	
1. You insert a motor	eries.
2. The light bulbs in the house are connected in s	
2. The light builds in the	
	-Zaher language School
Covernorate	-Zamer in S
Answer the following questions :	
·toncoc'	Luc byoggers is
1. [A] Complete the following sentences. 1. Scissors is an example of the class le	evers, while tweezers is
from class level. 2 results from passing electric current	through the human body.
2 results from passing electric current	
3. The Sun emits rays which are harmful to the	eyes such as
[B] Label the figure:	
2	• • • • • • • • • • • • • • • • • • • •
1	

the scientific	term:				
3. The rigid bar which with force and res	on of light bulb in brace not allow electricity h rotates around the sistance.	fulcrum and is of	ected)
[B] Compare between	each of the following		()
P.O.C	Solar eclipse)
Duration:		Lunar eclipse			
3. [A] Choose the correct	t answer.				
1. When the part of t	he moon enter the				
cause	the moon enter the s	hadow area of the	Earth		
2 is consider a. Seesaw 3. The filament of the a. argon. 4. Plants make their a. photosynthesis c. respiration [B] Calculate: A first class lever, the	ered from the third contracted by Nutcracker controlled by the light bulb is made of by tungsten. Own food through	partial solar. lass levers. Fish hook of mercury. transpiration digestion	d. partial lu d. Pliers d. neon.		
			,		••••
[A] Put (V) or (x):					••••
1. Looking directly at	the Sun causes so				
2. Electric lamps are 3. lunar eclipse occur	Connected in house	vere damage to th	e eyes.	()
3. lunar eclipse occu 4. The fulcrum observed	r twice per year.	o iii senes.		()
		and resistance.		()
[B] Cross the odd word 1. Umbra – Penumbr 2. Copper – Wood – 3. Bottle opener – Nu 4. Battery – Electric v	a – Antumbra – Ort Plastic – Glass.	oit.			

-Adminiations

ic current pass through enters the shadow are energy to light energy he effort. ong one: crum between the for	
hase.	***************************************
ade of carbon.	and) al solar eclipse appear. ()
out by c. air. tric current in the ele	d. electricity. ectric circuit. d. Key
c. iron. measured in	d. plastic.
c. cm.	d. kg.
200 N. and the res	he arm of resistance
	he effort. ong one: crum between the for hase. for connecting elect arm is more than resi of the levers of

chaose from column /pv.	Final Examinations
[A] Choose from column (B) what suit	ts it in col
	Column (A) :
1. The inventor of the light bulb	The state of the s
2. The main source of light	" uie Sun
3. Lasts for more than two hours	b. tweezers.
4. Used to pick up very small objects	c. the lunar eclipse.
1	d. Thomas Edison.
[B] Give reasons for:	3.
4 Second class levers at	The Principles of the Parish States of the Parish S
1. Second class levers always save	effort.
2 Don't place any metallic ob:	
2. Don't place any metallic object in	the socket.

Cairo Governorate	
Came Covernoiare	Heliopolis modern language school
swer the following questions:	" " " " " " " " " " " " " " " " " " "
[A] Complete:	
1. The is a type of lever alw	vays conserves effort, while the is
a type always doesn't conserve e	effort.
Harms of electric shock depend of	of electric and to passing
electric current in the body.	and to passing
3. The eclipse doesn't ham	n the eve while the eclinse
	ii die eye, wille die ecipse
causes harm to eyes.	't-t while connectic a
4 is an example of electric	; insulator, while copper is a
of electricity.	
[B] Mention two differences between	connection in series and connection in
parallel for electric lamps. Accord	ding to:
**	

***************************************	******************
************************************	min each way of them.
2. What will happen if one lamp turn	ns off in each
	ns off in each way or uncommended in each way or

************************************	(Notebook) - 1 (Notebook) 1 - 1 Land 1 - 1



1. In the fluorescent phosphoric materials. Water rises inside 3. When we connect increases by increases by increases by increases and the scientist new [B] What happens if 1. The glass bulb of	the plant stem the more than one leasing their numbers on who invited the state of the electric lamp	amp in series, the light lamp. is filled with air.	ood tissue).	
2. There is no osmo	sis feature in the	plant.		
saving efforts. 3. The metal that is 4. It occurs when the of the Earth. [B] Calculate the required	hines which are to used in making ne whole moon e	the filament of electri	ic lamps. (id area (ir if the effort	
4. [A] Choose the correct 1. From the second a. sweet holder. 2. The electric lamp	b. crow bar.		d. seesaw	у.
a. sound 3. Plants absorb wa	b. light	c. kinetic	d. potentia	al
a. flowers.	b. root hair.	c. stem. s two hours b. less than d. no correct ans		

	re connected in pa	arallel con	
		arallel connection in	houses.
2. Water is not used	d to put out electri	c fires	**************
Cairo Gov			**************************
		West Naser Cit	
wer the following qu	estions :	- CIT	Educational Zone
complete:			
A] Complete : 1occurs v straight line with	when the Earth	•	
straight line with	the moon in the r	niddle	are nearly on one
2. The filament of t	he light bulb is ma	ade of	on one
3. The crowbar is c	considered a	······ class I	
4. The lunar eclips	e occurs in the	of the 1	
5. Among the mate	rial which are con	sidered as electric	onth.
B] What happened if	?		isulator is
Water is used to pu			

[A] Choose the corre			
1. Glass bulb in ele	ectric lamp contain	n gas.	
1. Glass bulb in ele a. hydrogen	ectric lamp contain b. oxygen	c. argon	d. nitrogen
1. Glass bulb in ele a. hydrogen 2 is a fixe	ectric lamp contain b. oxygen ed point that a rigi	c. argon d bar rotates around	on.
1. Glass bulb in ele a. hydrogen 2 is a fixe a. Resistance	b. oxygen ed point that a rigi	c. argon d bar rotates around c. Fulcrum	on. d. Lever
1. Glass bulb in election at hydrogen 2 is a fixed at Resistance 3. The plant makes	b. oxygen ed point that a rigid b. Force s its own food thro	c. argon d bar rotates around c. Fulcrum ough proce	on. d. Lever
1. Glass bulb in election a. hydrogen 2 is a fixe a. Resistance 3. The plant makes a. respiration	b. oxygen ed point that a rigid b. Force s its own food through	c. argon d bar rotates around c. Fulcrum ough proce	on. d. Lever ss. d. photosynthesis
1. Glass bulb in election at hydrogen 2 is a fixed at Resistance 3. The plant makes	b. oxygen ed point that a rigid b. Force s its own food thro b. digestion than one machin	c. argon d bar rotates around c. Fulcrum ough proce	on. d. Lever ss. d. photosynthesis ause an
1. Glass bulb in election a. hydrogen 2 is a fixe a. Resistance 3. The plant makes a. respiration	b. oxygen ed point that a rigid b. Force s its own food through	c. argon d bar rotates around c. Fulcrum ough proce	on. d. Lever ss. d. photosynthesis ause an
1. Glass bulb in ele a. hydrogen 2 is a fixe a. Resistance 3. The plant makes a. respiration 4. Operating more a. electric fire.	b. oxygen ed point that a rigit b. Force s its own food thro b. digestion than one machin b. electric burn	c. argon d bar rotates around c. Fulcrum ough proce	on. d. Lever ss. d. photosynthesis ause an
1. Glass bulb in election a. hydrogen 2 is a fixed a. Resistance 3. The plant makes a. respiration 4. Operating more a. electric fire. B) Give reasons for	b. oxygen ed point that a rigit b. Force s its own food thro b. digestion than one machin b. electric burn	c. argon d bar rotates around c. Fulcrum ough proce c. sensation e from one socket of c. electric shock	on. d. Lever ss. d. photosynthesis ause an
1. Glass bulb in ele a. hydrogen 2 is a fixe a. Resistance 3. The plant makes a. respiration 4. Operating more a. electric fire. B) Give reasons for 1. Second class le	b. oxygen ed point that a rigit b. Force s its own food thro b. digestion than one machin b. electric burn :	c. argon d bar rotates around c. Fulcrum ough proce c. sensation e from one socket of c. electric shock save effort.	d. Lever ss. d. photosynthesis ause an d. electric wire.
1. Glass bulb in ele a. hydrogen 2 is a fixe a. Resistance 3. The plant makes a. respiration 4. Operating more a. electric fire. B) Give reasons for 1. Second class le	b. oxygen ed point that a rigit b. Force s its own food thro b. digestion than one machin b. electric burn :	c. argon d bar rotates around c. Fulcrum ough proce c. sensation e from one socket of c. electric shock save effort.	d. Lever ss. d. photosynthesis ause an d. electric wire.
1. Glass bulb in election a. hydrogen 2 is a fixed a. Resistance 3. The plant makes a. respiration 4. Operating more a. electric fire. B) Give reasons for	b. oxygen ed point that a rigit b. Force s its own food thro b. digestion than one machin b. electric burn :	c. argon d bar rotates around c. Fulcrum ough proce c. sensation e from one socket of c. electric shock save effort.	d. Lever ss. d. photosynthesis ause an d. electric wire.

1. The method of connecting electric 2. A phenomenon occurs when a part 3. Type of levers that always doesn 4. A tool that changes electric energy of its arm is 20 cm. when the value of the resistance.	gy into light energy. lever equal 500 Newtone of resistance force in	n and the length
[A] Correct the underline words:		()
1. Copper and iron are electric insi 2. The effort force and resistance for	ulator. orce are equal in the sec	
 Human body is <u>a bad</u> conductor Looking at the <u>lunar</u> eclipse cau 	of electricity. ses great harms for eyes	() s. ()
[B] In the opposite circuit:		
 The bulbs are connected in What happenes if the bulb number 2 is burnt? 		
7 Giza Governorate	Bolaque Edu	cational Zone
Answer the following questions:		
[A] Choose the correct answer:		
1. Which of the following levers say	e effort ?	
a. Tweezers. b. Nutcracker.		d. Coal holder.
2. The fulcrum between effort force	and resistance in	•••••
a. first class lever.	b. second class lever.	
c. third class lever.	d. second and third cla	ass lever.
100		

3. The lunar eclipse occurs in the	Final Examinations
3. The lunar eclipse occurs in the of lunar eclipse occurs in the occu	Unations
4. Electric occurs who	month.
circuit.	d. quarter
4. Electric occurs when your body bed a. shock b. fire c. beginning c. beginning c. beginning c. beginning c. burn	comes a part of an electric
rel What nappens if?	d. indirect injuries
1. The moon orbits in a higher orbit from the Ea	injuries
the Ea	arth.
2. The filament of light bulb made of iron.	
[A] Complete:	
The crowbar is class lever while the class lever.	e nuteroales .
class lever.	Trutteracker is
2. The solar eclipse occurs when the	lies between o
O The cuter level of	Sun and
3. The outer layer of root is called wh	nile the inner most layer is
called	ille the inner most layer is
4. From examples of the electric insulators	ille the inner most layer is
called 4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force	and
4. From examples of the electric insulators	and
called 4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force	and
called	and
called	arth between sun and moon on
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force Calculate the resistance if the arm of resist [A] Writ the scientific term: 1. Astronomical phenomenon happen when each one straight line.	arth between sun and moon on ()
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force Calculate the resistance if the arm of resist [A] Writ the scientific term: 1. Astronomical phenomenon happen when each one straight line.	arth between sun and moon on ()
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force Calculate the resistance if the arm of resist [A] Writ the scientific term: 1. Astronomical phenomenon happen when each one straight line. 2. One of the dangers of electricity that cause in the content of the content of the cause in the content of the content of the cause in the cause	arth between sun and moon on () damage of body tissues.
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force Calculate the resistance if the arm of resist [A] Writ the scientific term: 1. Astronomical phenomenon happen when each one straight line. 2. One of the dangers of electricity that cause in the content of the content of the cause in the content of the content of the cause in the cause	arth between sun and moon on () damage of body tissues.
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose for Calculate the resistance if the arm of resist [A] Writ the scientific term: 1. Astronomical phenomenon happen when e one straight line. 2. One of the dangers of electricity that cause of the dangers of electric lamps where a danger of the	arth between sun and moon on (
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose for Calculate the resistance if the arm of resist [A] Writ the scientific term: 1. Astronomical phenomenon happen when e one straight line. 2. One of the dangers of electricity that cause of damage.	arth between sun and moon on (
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force Calculate the resistance if the arm of resist [A] Writ the scientific term: 1. Astronomical phenomenon happen when each one straight line. 2. One of the dangers of electricity that cause a damage. 3. Away of connecting electric lamps where a damage. 4. The source of electricity in the electric circle.	arth between sun and moon on (
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force Calculate the resistance if the arm of resists [A] Writ the scientific term: 1. Astronomical phenomenon happen when each one straight line. 2. One of the dangers of electricity that cause of the damage. 3. Away of connecting electric lamps where a damage. 4. The source of electricity in the electric circle. [B] Month of the damage of lever the source of lever the	arth between sun and moon on (
4. From examples of the electric insulators [B] Force of 50 N affected in a lever whose force Calculate the resistance if the arm of resists [A] Writ the scientific term: 1. Astronomical phenomenon happen when each one straight line. 2. One of the dangers of electricity that cause of the damage. 3. Away of connecting electric lamps where a damage. 4. The source of electricity in the electric circle. [B] Month of the damage of lever the source of lever the	arth between sun and moon on (





PART	Cwater vapour.
A	[A] Correct the underlined words: 1. Photosynthesis is losing of water in a form of water vapour. 1. Photosynthesis is losing of water in a form of water vapour. 1. Photosynthesis is losing of water in a form of water vapour. 2. Partial solar eclipse occurs when the Earth lies in the shadow of moon. 2. Partial solar eclipse occurs when the Earth lies in the levers. 2. Partial solar eclipse occurs who describe the levers. 3. Partial solar eclipse occurs who describe the levers. 4. Partial solar eclipse occurs who describe the levers. 4. Partial solar eclipse occurs who describe the levers. 4. Partial solar eclipse occurs who describe the levers.
4.	A photosynthesis is losing of water the Earth lies in the levers.
	1. Photosynthesis is losing of War. 1. Photosynthesis is losing of War. 2. Partial solar eclipse occurs when the Earth lies. 2. Partial solar eclipse occurs when describe the levers. 3. Newton was the first scientist who describe but not found in light bulb. 4. The argon gas is found in fluorescent lamp but not found in light bulb.
	2. Plauton was the first scientist to
	3. Newton gas is found in liuo.
	4. The argument for:
	4. The arguing [B] Give reasons for: 1. Electric lamps at home are connected on parallel. 2. word cells.
	1. Electric lamps at normal colls.
	The stomata is surrounded by 2 guard cells.
	Science Inspectorate
	Garrormorate
	8 Giza Governorate
	Answer the following questions:
	1. [A] Write the scientific term: 1. [A] Write the scientific term: 1. It is a rigid bar that rotates around a fixed point called the fulcrum and is (
	1. [A] Write the scientific term: (
	"
	o this a tool that converts electric suban the Sun, the Earth and the
	3 It is an astronomical priction.
	moon are nearly on one straight line with the moon aver of the root. (
	moon are nearly on one straight line with the moon are rearry on one straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the moon are nearly on the straight line with the
	[B] Give reasons for :
	1. The crowbar is considered from first class lever.
	2. Some levers are important to man although they do not conserve effort.
	2. 001110 10 10 10 10 10 10 10 10 10 10 10
	2. [A] Complete the following:
	1. Nutcracker has mechanical benefit, because it has
	longer than
	2. By increasing number of lamps that connected in series circuit, light
	intensity
	3. The type of eclipse that is observed in dark shadow area (umbra) of the
	moon is
	4 is widely spread on the lower surface of the plant leaves.
	102

2. We did not have levers. equal to the arm of resistance in the arm of resistance. 2. We did not have levers.	11 a firet .
- revers.	st class lever.
	•••••
A] Choose the correct answer:	••••••
1. The lever is considered from third at	
a. fulcrum b. effort force class lever when it is	
1. The lever is considered from third class lever when it has a fulcrum 2. Most electric lamps contain	nas in the middle
a. helium b. noen inert gas	d. resistance arm
3. When the moon is in a big.	
observed.	d. argon
3. When the moon is in a higher orbit from the Earth, a. total b. noen c. nitrogen c. nitrogen b. partial	solar eclines is
4. Plants lose water in the form of water vapour in a. photosynthesis c. annular b. partial c. annular b. transpiration b. transpiration	bac 18
a. photosynthosis	d. no eclipse
c. evaporation b. transpiration	····· process.
Polation	
The following	
". The length of the force and a	
the arm of resistance is 45	s 5 cm. and the length of
the arm of resistance is 15 cm. If the resistance for Newton, calculate the value of the effecting force	orce has a value of 300
Newton, calculate the value of the effecting force.	

2. Draw a labeled figure to show the main components	
diabeled figure to show the main components	of the simple electric circuit.
·····	
······································	

Correct the under	
Correct the underlined word :	()
1. Coal holder is used to increase force. 2. The damage caused by all esticity and leads to design the damage caused by all esticity and leads to design.	() lestroy a body
Correct the underlined word: 1. Coal holder is used to increase force. 2. The damage caused by electricity and leads to dissue is the damage caused by electricity and leads to dissue its damage.	
Correct the underlined word: 1. Coal holder is used to increase force. 2. The damage caused by electricity and leads to d tissue is the electric shock. 3. The lunes.	(
Correct the underlined word: 1. Coal holder is used to increase force. 2. The damage caused by electricity and leads to d tissue is the electric shock. 3. The lunes.	(
1. Coal holder is used to increase force. 2. The damage caused by all esticity and leads to design the damage caused by all esticity and leads to design.	(



(B) Ar	swer the following	questions :		
1.	Why do the doctors	and watch ma	kers use tweeze	ers in their work?
2	. Mention one preca	ution that help t	o avoid electric	fires.

9	Giza Gover	norate	Abou El-No	omros Educational Zone
Answ	er the following que	stions :		
1. [A]	Complete the follow	ving questions	•	
	1. The hockey bat is			ss levers.
			lies betwe	en the Earth and the Sun
	on one straight li			
	3 Is consider			
	4. Any plant consist	s ofsy	stem and shoot	system.
I	B] Problem:			
				lass where its force arm
	was 5 cm. If the va			wton.
	1. Calculate the le	ngth of the arm o	of resistance.	
	2 Does this lover	concerte effect :		
	2. Does this lever	conserve effort o	or not ?	
9			***************************************	
۷.	[A] Choose the corr			
	1. Plants absorb w	ater by		
	a. flowers.	b. root hairs.	c. stem.	d. leaves.
	2 is a fi	xed point that a	rigid bar rotates	on.
	a. Resistance	b. Force	c. Fulcrum	d. Lever
	3. The electric lar	np converts the	electric energy to	the energy.
	a. sound	b. light	c. kinetic	d. potential
	4. During the star	t of the total lun	ar eclipse, the co	lour of the moon tends to
	a. red.	b. yellow.	c. gray,	
			. J	d. orange.

2. An increasing speed lever.	•••••	
A] Put (√) or (x):		
1. Levers make tasks easier.		
2. The scientist "Newton" invented the light bulb.		,
3. LOURING AT THE INITIAL CUIDSE COLLEGE		ì
4. The two guard cells change their shape to a	the eyes.	ì
4. The two guard cells change their shape to open and Give reasons for :	d close the stoma.	ì
1. Not plugging (connecting) more than one machine		•
und one machine	to one socket.	
		····
2. Nutcracker is a second class lever.	***************************************	••••
1 Chance from column (A)		
Choose from column (A) what suits it in column	(B):	
(A)	(B):	
(A) 1. Coal holder is a lever used to	(B): (B) a. partial lunar eclip	ose.
(A) 1. Coal holder is a lever used to 2. Tungsten filament is protected from air by	(B)	
(A) 1. Coal holder is a lever used to	(B) a. partial lunar eclip	
(A) 1. Coal holder is a lever used to 2. Tungsten filament is protected from air by	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger.	
(A) 1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of	(B) a. partial lunar eclip b. the solar eclipse	
(A) 1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb.	
(A) 1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb.	
1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb.	
1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb.	
1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb. 4	
1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb. 4	
1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	(B) a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb. 4	
(A) 1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb. 4	e ar
1. Coal holder is a lever used to 2. Tungsten filament is protected from air by 3. When a part of the moon enters the shadow area of the Earth, it is called 4. The type of eclipse that occurs during morning is 1	a. partial lunar eclipse b. the solar eclipse c. avoid danger. d. the glass bulb. 4	e ar

Giza Governorate

Answer the following questions :

Answer the following questions.	
1. [A] Choose the correct answer: 1. Levers were first described by b. Farady.	c. Archimedes.
a. Newton. 2. Electric wires are covered with b. plastic. a. iron. 3. Which of the following levers is second class b. Tweezers.	c. silver. s lever? c. Coal holder.
a. Nutcracker. 4. Plant absorbs water by b. flowers.	c. stem.
[B] Correct the underlined words: 1. Pliers is third class lever. 2. Annular solar eclipse can be seen from pen moon on Earth.	umbra area of the ()
2. [A] Complete the following statements: 1. The crowbar belongs to	onger thanand the Sun.
2. Unscrewing a bulb from an electric circuit co	ntains bulbs connected in series.
3. [A] Write the scientific term: 1. The materials that let electricity to flow through	[1]
 Part of electric bulb that prevent air from real 3. It occurs to the moon when a part of it enter of the Earth. Type of levers that are always conserve effective. 	rs the shadow area
4. Type of levels trial are always conserve effor	ort.

1	Examinations
1.	Tions
2	
 3	
[A] Put (\(\sigma\)) or (\(\x):	
1. The first class levers always as	
Z. Licotific overload may cause electric	
3. The solar eclipse last for two hours	
4. Lunar eclipse requires special glasse	s to observe "
[B] Give reasons for:	()
1. The light bulb contain argon gas.	
2. Scissors is a first class lever.	•••••••••••
	•••••••••••••••••••••••••••••••••••••••
Alexandria Governorate	El-Agamy Educational Zone
Alexandria Governorate	El-Agamy Educational Zone
Alexandria Governorate Inswer the following questions:	
Alexandria Governorate Alexandria Governorate Asswer the following questions: [A] Complete the following statements:	
Alexandria Governorate Inswer the following questions: [A] Complete the following statements: 1. In the second class levers, the resistence.	
Alexandria Governorate Inswer the following questions: [A] Complete the following statements: 1. In the second class levers, the resist the	ance force is found between
Alexandria Governorate Answer the following questions: [A] Complete the following statements: 1. In the second class levers, the resist the	ance force is found between gy into energy.
Alexandria Governorate Alexandria Governorate Asswer the following questions: [A] Complete the following statements: 1. In the second class levers, the resist the	ance force is found between gy into energy.
Alexandria Governorate Answer the following questions: [A] Complete the following statements: 1. In the second class levers, the resist the	ance force is found between gy into energy.
Alexandria Governorate Alexandria Governorate Answer the following questions: 1. In the second class levers, the resist the	ance force is found between gy into energy. ctricity, electric fire, and then the is located between the
Alexandria Governorate Alexandria Governorate Answer the following questions: 1. In the second class levers, the resist the	ance force is found between gy into energy. ctricity, electric fire, and then the is located between the
Alexandria Governorate Answer the following questions: [A] Complete the following statements: 1. In the second class levers, the resist the	ance force is found between gy into energy. ctricity, electric fire, and then the is located between the
Alexandria Governorate Answer the following questions: 1. In the second class levers, the resist the	ance force is found between gy into energy. ctricity, electric fire, and then the is located between the

- 2. The filament of light bulb made of tungsten.



1

3] Write the function of ea	ich of the following		
1. Stomata.			
1. Stomata.			
	h		
2. The base of the light b	buio.		
2. The base of the light is			
[A] Correct the underlined 1. The root system in p	d words .	ves and stem.	(
A SUCIEILI III F			(
1. The root system. 2. Scissors is a third cla	ass lever.	vear.	(
2. Scissors is a third class. 3. The lunar eclipse occ	curs five times per	ctance.	(
3. The lunar eclipse occ 4. The ice holder is use	ed in increasing a	Starre	
4. The ice holder is		where it's force	rm is 5 cm. if
4. The ice holder is use [B] Problem: A force of 400 N affected value of the resistance	ed a third class lev	er, who is a	resistance ar
A force of 400 is another	was 200 N. Calcu		
value of the resistance			
			THE RESERVE THE PROPERTY OF THE PARTY OF THE
			actorate
- 1580 GO	vernorate	Science Insp	ectorate
13 Al-Qalyoubia Go	vernorate	Science Insp	ectorate
The state of the s		Science Insp	ectorate
Answer the following quest	tions:		
Answer the following quest	tions:	dangers?	
Answer the following quest	tions:	dangers ?b. Wheelbarro	>W .
Answer the following quest 1. [A] Choose the correct at 1. Which of the following a. Scissors.	answer: ing is used to avoid	dangers?b. Wheelbarro	ow.
Answer the following quest 1. [A] Choose the correct at 1. Which of the following a. Scissors.	answer: ing is used to avoid	dangers?b. Wheelbarro	ow.
Answer the following quest 1. [A] Choose the correct at 1. Which of the following a. Scissors.	answer: ing is used to avoid	dangers?b. Wheelbarro	ow. oom. moon tends
Answer the following quest 1. [A] Choose the correct at a 1. Which of the following a. Scissors. c. Coal holder. 2. During the start of the tobe	answer: ing is used to avoid the total lunar eclip b. grav.	dangers?b. Wheelbarro d. Manual bro se, the colour of the	ow. oom. moon tends d. yellow.
Answer the following quest 1. [A] Choose the correct at the following at	tions: answer: ing is used to avoid the total lunar eclip b. gray. light bulbs in an ele	dangers?b. Wheelbarro d. Manual bro se, the colour of the c. orange.	ow. oom. moon tends d. yellow.
Answer the following quest 1. [A] Choose the correct at the following at	answer: ing is used to avoid the total lunar eclip b. grav.	dangers?d. Wheelbarro d. Manual bro se, the colour of the c. orange.	ow. oom. moon tends d. yellow. s with increasing
Answer the following quest 1. [A] Choose the correct at the following at	answer: ing is used to avoid the total lunar eclip b. gray. light bulbs in an ele os, lightening of the	dangers?	ow. om. moon tends d. yellow. s with increasing
Answer the following quest 1. [A] Choose the correct at the following at	answer: ing is used to avoid the total lunar eclip b. gray. light bulbs in an ele os, lightening of the	dangers?d. Wheelbarro d. Manual bro se, the colour of the c. orange. ectric circuit in series bulbs b. decreases	ow. om. moon tends d. yellow. s with increasing
Answer the following quest 1. [A] Choose the correct at the following at	tions: answer: ing is used to avoid the total lunar eclip b. gray. light bulbs in an ele os, lightening of the int. ving gases is found	dangers?d. Wheelbarro d. Manual bro se, the colour of the c. orange. ectric circuit in series bulbs b. decreases	ow. om. moon tends d. yellow. s with increasing
Answer the following quest 1. [A] Choose the correct at the following at	tions: answer: ing is used to avoid the total lunar eclip b. gray. light bulbs in an ele os, lightening of the int. ving gases is found	dangers?d. Wheelbarro d. Manual bro se, the colour of the c. orange. ectric circuit in series bulbs b. decreases	ow. om. moon tends d. yellow. s with increasing

The exerted force of a balanced lever equals 50 Newton its arm is 2 cm. and is affected by a resistance with a value of its resistance. (write the second of the exerted force of a balanced lever equals 50 Newton its resistance.	21.5
its ann is 2 cm. and is affected his equal-	al Examinar.
Calculate the length of the arm of a resistance of Newton	Sugions
of its resistant With a ver	and the
write th	ue of 20 M of
· · · · · · · · · · · · · · · · · · ·	e law). Wewton.
A] Complete the following substances:	
The color colins . "Off the	
1. Root hairs absorb water from the soil by the property of 2. The solar eclipse phenomenon occurs when the	
Two zers are service and the Sup or when the	
one Straight "	Slocat
from class levers. class levers by	Jared
4 Occurs as a result of passing at	Itcracker is
What happens if	
from class levers. 4 occurs as a result of passing electric current through 1. We put out the electric fires by water.	the human had
	Jody.
2. The light bulbs in the house and an arms	
2. The light bulbs in the house are connected in series.	
Write the scientific term:	•••••
1. Materials that allow the d	
1. Materials that allow the flow of allow.	
1. Materials that allow the flow of allow.	n. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the plan 	n. () ant leaves.
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort 	ant leaves. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort 	ant leaves. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort. It is the force exerted by a person to equilibrate the resistent 	ant leaves. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort. It is the force exerted by a person to equilibrate the resistant Give reasons for: 	ant leaves. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort. It is the force exerted by a person to equilibrate the resistant Give reasons for: 	ant leaves. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort. It is the force exerted by a person to equilibrate the resistant Give reasons for: Each stoma is surrounded by two guard cells. 	ant leaves. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort. It is the force exerted by a person to equilibrate the resistant Give reasons for: Each stoma is surrounded by two guard cells. 	ant leaves. ()
 Materials that allow the flow of electric current through then The losing of water in the shape of water vapor from the pla The levers that sometimes conserve effort. It is the force exerted by a person to equilibrate the resistant Give reasons for: 	ant leaves. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten.	ant leaves. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten.	ant leaves. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences:	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences:	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected. A fluorescent lamp contains the inert neon gas.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected. A fluorescent lamp contains the inert neon gas.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected. A fluorescent lamp contains the inert neon gas. Electric wires are made of plastic.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected. A fluorescent lamp contains the inert neon gas. Electric wires are made of plastic.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected. A fluorescent lamp contains the inert neon gas. Electric wires are made of plastic. Special glasses are used to observe the lunar eclipse.	int leaves. () () (ce. ()
1. Materials that allow the flow of electric current through then 2. The losing of water in the shape of water vapor from the pla 3. The levers that sometimes conserve effort. 4. It is the force exerted by a person to equilibrate the resistant Give reasons for: 1. Each stoma is surrounded by two guard cells. 2. The filament of the light bulb is made of tungsten. Correct the mistake in each of the following sentences: Plugging more than one machine to one socket causes elected. A fluorescent lamp contains the inert neon gas.	int leaves. () () (ce. ()



[B] Arrange the following layers of the root from inside to outside:

(Xylem - Cortex - Pith - Endodermis - Epidermis) PART

rahd	Official Lang. Scho	ŀ
King Pane	The second secon	

Al-Sharkia Governorate

Answer the following ques	tions :	. another	without bending
1. [A] Complete the following quest 1	at moves a force from or a conductor of sulting from the electric lows some salts to pas	TONE IRAU IO	
2. The first class level		***********	***********
2. The first class leve	s and oil lamps are free r sometimes conserve nts are surrounded by damage of the body ti	two woody cells.	r and odor. () () ()
[B] Label the figure:			
1	*****************	(A)-	1-65
2	***************************************		7
3			-
4	***************************************		(3)
a. iron.	light bulb is made of b. tungsten.	C. copper	d. sodium.
2. All of the following a. argon.	b. mercury vapour	ctric lamps except	d. (a) and (c)
3. Water rises from ro a. endodermis	ot to stem through b. cortex	layer.	d. epidermis
4 is a lever to	hat is used to avoid da	angers	
a. Coal holder	b. Scissors	c. Tweezers	d Stapler
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Nutracker is considered as an increasing force lever.	Final Examinations
2. Nutcracker is considered as an increasing force lever. All write the scientific term: 1. Types of levers that always doesn't save effort. 2. Structure in the fluorescent lamp that connects it to the electricity. 3. The substance that should not be used to put out electric fires. 4. The process by which plants lose the excess water in the form of water vapour. By What happens when? 1. The whole Moon enters the semi-shaded area of the Earth. 2. Length of force arm is half the length of resistance arm. Al-Menofia Governorate Shebeen El-Koum Educational Zone wer the following questions: 1. When we connect more than one bulb in series with an electric source, the lighting of bulb	Enr .
2. Nutcracker is considered as an increasing force lever. Name	Light bulb contains argon gas.
2. Structure in the fluorescent lamp that connects it to the electricity. (Nutcracker is considered as an increasing force lever.
2. Structure in the fluorescent lamp that connects it to the electricity. 3. The substance that should not be used to put out electric fires. 4. The process by which plants lose the excess water in the form of water vapour. 7. What happens when ? 1. The whole Moon enters the semi-shaded area of the Earth. 7. Length of force arm is half the length of resistance arm. 7. Al-Menofia Governorate 7. Shebeen El-Koum Educational Zone are the following questions: 8. Choose the correct answer: 9. When we connect more than one bulb in series with an electric source, the lighting of bulb	the scientific term:
2. Length of force arm is half the length of resistance arm. Al-Menofia Governorate Shebeen El-Koum Educational Zone wer the following questions: 1. When we connect more than one bulb in series with an electric source, the lighting of bulb	Structure in the fluorescent lamp that connects it to the electricity. (
Al-Menofia Governorate Wer the following questions: 1. When we connect more than one bulb in series with an electric source, the lighting of bulb	
Wer the following questions: 1. When we connect more than one bulb in series with an electric source, the lighting of bulb	Lengui oi ioroo a
In this case the moon light turns to be faint. a. Total lunar b. Partial lunar c. Non-lunar 4. Plant absorbs water and mineral salts from the soil by c. stem. b. root hairs. c. stem. c. stem.	When we connect more than one bulb in series with an electric source, the lighting of bulb a. decreases. b. increases. c. remains as it is. Which of the following levers is used to avoid dangers? b. Scissors. c. Wheelbarrow. c. Wheelbarrow. c. Wheelbarrow. eclipse occurs when the moon enters the semi-shaded area only.
COULD CIBE HANGI IS MOVE AND IN	In this case the moon light turns to be fairt. a. Total lunar b. Partial lunar c. Non-lunar Plant absorbs water and mineral salts from the soil by c. stem. b. root hairs. c. stem. c. stem.
Calculate the length of the resistance arm?	cm, the lever has also a room ? culate the length of the resistance arm?
balay line	batal los

	4. The duration of solar e Compare between the s following table:		Third	
	Points of comparison	Second class leve		
	1. The midpoint :			
	2. Saving effort :			
3. [4]	Choose from column (B	what suits it in colu	ımn (A) : (B)	
[7]				
	1. Substances that allow e	t trip current to	a. Umbra.	
3	pass through. 2. A vital process carried of make its own food. 3. It is the dark inner shade solar eclipse appears. 4. A rigid bar rotates aroun affected by a force and a	out by the plant to ow area in which d a fixed point and	b. Lever. c. Photosynthesis productors d. Electric insulators e. Electric conductors	
			7	
	2	3.	4	• ••••••
1. [B] Co 1. V		ntences : l as class le	ver, while the manua	•
[B] Con 1. V is 2. ···	Mater pump is considered s considered as and are	ntences: l as class le class lever. two ways for connec	ever, while the manual	al broo
[B] Cor 1. V 2	Mater pump is considered as	ntences: l as class le class lever. two ways for connec	ver, while the manual ting electricity.	al broo
[B] Cor 1. V [A] Cor 2. ··· 2. To	Nater pump is considered some considered as	ntences: l as class le class lever. two ways for connec	ever, while the manual ting electricity.	(
[A] Cor 1. Ti 2. To 3. W	Nater pump is considered as	ntences: las class le class lever. two ways for connec rds: lb is made of carbo e safely you should resistance arm = 5	ever, while the manual ting electricity.	al broo
1. [B] Cor 1. V 2. ··· 2. To 3. W 7.1	Nater pump is considered some considered as	ntences: I as class led class lever. Itwo ways for connect rds: Ib is made of carbo e safely you should a resistance arm = 5 als 35 N.	ever, while the manual eting electricity. on. wear lenses. cm. and resistance	(

(B) What happened in the force arm to be	xaminations
The length of the force arm is half the	3,11116
(B) What happens it. 1. The length of the force arm is half the length of the representation and several electric most.	
The state of the s	isistance arm for
2. Plugging several electric machines I	
2. Plugging several electric machines in the same socke	ot,
	π,
El-Gharbia Governorate	THE STREET, STREET, STREET, STREET,
official La	
official La	Inguage Schools
complete the following:	
A IS resulted from the bar.	
2. The lighting of the light bulbs does not we want to move	ve,
in connection	
3. The solar eclipse is formed when the moon is	an in legited
higher than that of the Earth.	s located in an orbit
4. The process that allows some salts to pass according	
is called	to the plant's need
(B) Give reasons for:	
1. Nutcracker is considered as an increasing force lever	
increasing force level	
2. Hockey bat and fishing tool are 3 rd class levers.	· · · · · · · · · · · · · · · · · · ·
Class levers,	
	annon montener de la company de la compa
[A] Write the scientific term :	
1. A force that increases when the force arm is shorter t	than the
resistance arm.	(
2. An element that is used in making the filament of the	
fluorescent lamp.	(mmmin)
3. The area in which the partial solar eclipse appears.	(mmmin)
4. A structure extends from the root wall to absorb water	r. (
(B) The force affecting on a second class lever equals the length of its arm is 50 cm. If the value of the res	istance 1000 Newton.
l ola i i i a a a arm	
Calculate the value of the resistance arm.	

***************************************	[115]



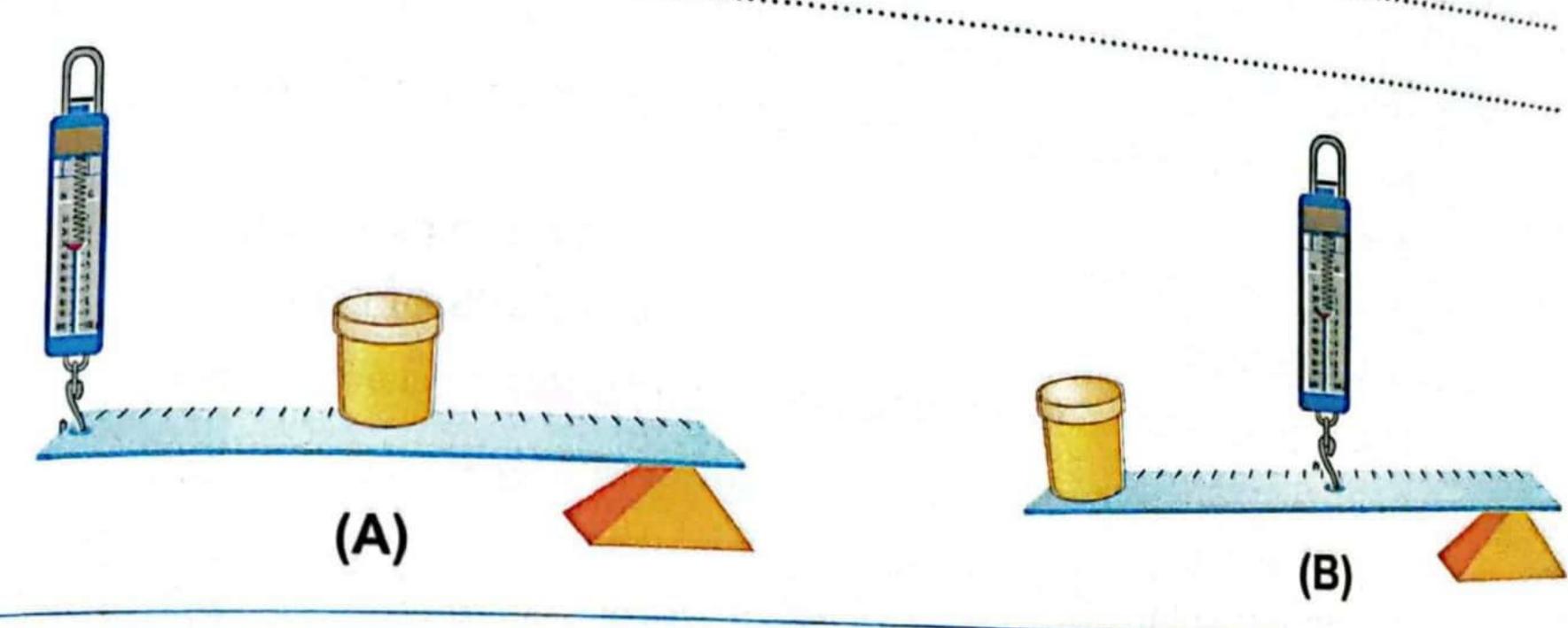
. [A] Correct the underl	ined words:	. cabio	cte we inflict
1. Some of the leve	rs allow the increase	in the speed of obje	CLS WC ITTIIICE ON
as in the manual	broom.		
o The electric lomp	contains hydrogen	gas.	()
2. The Union ocline	e doesn't occur when	the whole Moon ent	ers the
	ula Corth		
4 Dient locos water	r in the form of water	vapour in photosyn	thesis process.
4. Plant loses water			()
[B] Mention one use f	or the following:		
1. Tweezers :			
2. The base of the	light bulb :		
4. [A] Choose the corre	ct answer :		
1. Wheelbarrow is	considered from	class lever.	
a. first	b. second	c. third	d. fourth
2 occurs	due to passing the el	ectric current throug	h the human body.
a. Electric shock	K	b. Electric fire	
c. Electric burn		d. Electric ove	rload
3. The type of sola	r eclipse differs acco	rding to the moveme	ent of the
in front of the St			
a. Earth	b. moon	c. Mercury	d. Saturn
4. When the moon	looks slightly faint i	t indicates	u. Saturn
a. total lunar ec	lipse.		
c. partial solar e		b. partial luna	
		d. no eclipse.	
[B] Look at the follow		swer:	
1. What is the name	ne of this		
figure :	••••••	-0	
2. Write what repre	esent each label		
on the figure :	7		(2)
1		(3))
۷			
3		*********	
		The state of the s	The second secon

El-Dakahlia Governorate

Answer the following questions:

(A) Complete the following sentences:

- The manual broom is an example of the levers while the scissors
- 4. The transmission of water from soil to the vacuole of the root hair occurs by while mineral salts are transmitted from the soil by
- β] Determine which of the following levers conserve the effort, and give



[A] Put (√) or (×):

- 1. Crowbar is example of levers to increase distance.
- 2. The electric shock may cause electric burns.
- 3. Among the similarities between solar eclipse and lunar eclipse is that each of them causes harms for eye.
- 4. Plant stoma is surrounded by two woody cells.
- [B] The arm length of a third class lever is 10 cm. and the length of the arm of the resistance is 30 cm. If the resistance has a value of 300 Newton. Calculate the value of the affecting force.

My Write the scientific term:

- 1. Fixed point that a rigid bar sits on.
- 2. The way of connecting the lamps in houses.
- ... Juring the solar eclipse.





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Fig. (a)

the following questions:	ocience Inspe
the following questions:	Science Inspectorate
Complete the following statments	
1. Lunar eclipse occurs when the Sur a straight line and the in 2. The lever always saves effort when	n, the Earth and "
The lever always saves effort	the middle. The are -
poot hair has big	arm :
2. The lever always saves effort when 3. Root hair has big that co	ontains soluti
by their numbers	une light intensit
4. When connecting light bulb in by their numbers. The exerted force of the first class its arm is 20 cm. and is affected by Find the value of the arm of the re	of lamp decreases
its arm is 20 cm. and is affected by	lever equal 500 Newton
its arm is 20 cm. and is affected by Find the value of the arm of the re	a resistance with a value of 200 to
	Sistance. Newton.
,	
Choose the correct answer:	
1. The occurs due to passing a. electric fires	the electric
a. electric fires	b. electric shock
c. electric overload	d. electric current
2 is from the third class lev	vers.
a. Crowbar b. Scissors	c. Seesaw d. Manual broom
3. When the moon prevents part of the	he sunlight from reaching the
carin, is formed.	
a. total soler eclipse	b. annular solar eclipse
c. partial solar eclipse	d. partial lunar eclipse
4. The layer that follow the cortex lay	er is
a. epidermis. b. xylem.	c. pith. d. endodermis.
D. Ayloin.	
Mention the function of:	
Mention the function of:	
Mention the function of: 1. Tweezers.	
Mention the function of:	



Plant stomata is surround When whole moon enter p is formed. The force is a fixed point	that a rigid par rotate at	rth, partial lunar eclipse
1. Second class levers and a Point of comparison	Second class	Third class
War of offert	******************************	
2. Light bulb and fluorescen	t lamp (According to the	gases used inside).
2. Light build and modern	Light bulb	
The used gases	************	CANTERSON CONTRACTOR AND CONTRACTOR
resistance force. 4. The type of solar eclipse	in which Sun appears as	s a lighted ring. ()
(B) Give reasons for:	ted in the houses in nor	attat
(B) Give reasons for: 1. The light bulb are connected.	ered a second class leve	

the extra resistance	00 Newton, the length
affected by a resistant	Newton, the length of force arm is 20 cm. and is
Choose the correct and	swer:
1. From the first class lev	/ers is
nutcracker. D.	sweet holder
2. When the electric lamp	p connected in parallel with others the light
intensity	in a serior with others the light
a decidado.	C. Vanishon
3. It occurs to the moon a total solar eclipse.	d. doesn't change
c. partial solar eclipse.	D. total lunar coli
4. Root hair absorbs water	
a. imbibition.	
c. respiration.	b. osmosis.
Compare between:	d. selective permeability.
Point of comparison	First class lever Second class lever
Conservation of effort	***************************************
white the colontific to	
	fixed point, and is affected by a force and
A rigid bar rotates on a fresistance.	fixed point, and is affected by a force and
A rigid bar rotates on a fresistance.	fixed point, and is affected by a force and
A rigid bar rotates on a resistance. Fires occur as a result of machines.	fixed point, and is affected by a force and () of the increase in the temperature of the electric ()
A rigid bar rotates on a resistance. Fires occur as a result of machines.	fixed point, and is affected by a force and () of the increase in the temperature of the electric () the moon enters the shadow area of the Earth.
A rigid bar rotates on a resistance. Fires occur as a result of machines. It occurs when a part of	fixed point, and is affected by a force and () of the increase in the temperature of the electric () the moon enters the shadow area of the Earth. () gh which plants lose water in the form of vapour.
A rigid bar rotates on a resistance. Fires occur as a result of machines. It occurs when a part of Biological process throu	fixed point, and is affected by a force and () of the increase in the temperature of the electric () the moon enters the shadow area of the Earth. () gh which plants lose water in the form of vapour. ()
A rigid bar rotates on a resistance. Fires occur as a result of machines. It occurs when a part of Biological process through that happens when? The force arm is longer to the second of the s	fixed point, and is affected by a force and () of the increase in the temperature of the electric () the moon enters the shadow area of the Earth. () gh which plants lose water in the form of vapour. ()
A rigid bar rotates on a resistance. Fires occur as a result of machines. It occurs when a part of Biological process through the force arm is longer to You insert a metal bar in	fixed point, and is affected by a force and (
Fires occur as a result of machines. It occurs when a part of Biological process throughout the happens when?	fixed point, and is affected by a force and () of the increase in the temperature of the electric () the moon enters the shadow area of the Earth. (

[A] $Put(\checkmark) or(x)$:	en the resid	stance and
 (A) Put (√) or (x): 1. The second class levers has the force the fulcrum. 2. Electric insulators allow the flow of each of the flow of each of the flow of each of the flow of the flow of each of the flow of	lectric current union	(
The duration of solar eclipse designed few seconds.		
[B] Give reasons for: 1. The third class levers do not consen		erekekkinger entertelkerkeiste (sinterekking)
Control 2011 (19 11 1820)	A 10	**************
2332473343234524474444744447447447474747474747474747		spectorate
20 Al-Behira Governorate		
Answer the following questions :		
 [A] Choose the correct answer: 1. Which of these gases is present in a 	fluorescent lamp a	nd is not found in
an electric lamp? a. Neon. b. Argon. 2. When the force arm is shorter than the shorter t	c. Mercury gas.	d. Oxygen.
decreases.	c. fulcrum	d. both (a) and (t
The lunar eclipse takes place in the a. beginning b. end	c. middle	O. HISI WEEK
Which of these levers does not sav a. Ice holder. b. Wheelbarrow.	e an effort ?	d. Soda opener.
[B] If the effort force of 200 Newton act		
from the fulcrum, if the resistance a Calculate the value of resistance for	ırm is 50 cm.	
***************************************	**************************************	**************************************
The state of the s		The state of the second sequences to be a second to the se
[A] Correct the underlined words:		
[A] Correct the underlined words: 1. The heater should be placed near for the phenomenon of solar eclipse of the		



Compare between:				
Points of comparison	Third class lever	Second class lever		
1. Definition :	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
2. Examples :	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·		
Choose from column (B) what suits it in colum	in (A):		
(A)		(B)		
 Crowbar Transpiration process Partial lunar eclipse Electric burns 	 a. occurs when a part of moon enters the unof the Earth. b. it is a process by which plant loses excess where of second class. d. is a danger of electricity causes damage body tissues. e. lever of first class. 			
,	, manual 3,	mmmm 4, mmm		
3] Give reasons for: 1. The force doesn't equal 2. In the house the electrons	al the resistance in the th	nird class lever.		
3] Give reasons for: 1. The force doesn't equal 2. In the house the electrons	al the resistance in the the	nird class lever.		
3] Give reasons for: 1. The force doesn't equality	al the resistance in the the first lamps are connected in t	nird class lever. in parallel.		
3) Give reasons for: 1. The force doesn't equal 2. In the house the electric A) Write the scientific ten 1. A closed path through 2. The class of levers the	al the resistance in the the first lamps are connected in the the same same connected in the the same same connected in the the same connected in the the same connected in the same connected in the same connected in the the same connected in	nird class lever. in parallel. pass. (
3) Give reasons for: 1. The force doesn't equal 2. In the house the electrons A) Write the scientific ten 1. A closed path through	al the resistance in the the first lamps are connected in the the same same connected in the the same same connected in the the same connected in the the same connected in the same connected in the same connected in the the same connected in	nird class lever. in parallel. pass. (
2. In the house the electrons 1. A closed path through 2. The class of levers the sarth and the Sun.	al the resistance in the the fiction of the second connected which electric charges part sometimes save effort curs when the moon is local curs when the moon is local connected curs when the moon is local curs.	nird class lever. in parallel. pass. (
2. In the house the electrons 1. A closed path through 2. The class of levers the sarth and the Sun.	al the resistance in the the fiction of the second connected which electric charges partial second control of the moon is look in which the partial second control of the partial second c	pass. (



Compare between:		()	
Points of comparison	Third class lever	Second class lever	
1. Definition :			
2. Examples :			
A] Choose from column (E) what suits it in colum	n (A):	
(A)		(B)	
 Transpiration process Partial lunar eclipse Electric burns 	 a. occurs when a part of moon enters the umbra of the Earth. b. it is a process by which plant loses excess water. c. lever of second class. d. is a danger of electricity causes damage of body tissues. e. lever of first class. 		
B] Give reasons for: 1. The force doesn't equal			
2. In the house the electr	ic lamps are connected i		

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Science Inspectorate

Answer the following questions :

	[A]	Com	olete	the	following	
			31010	LITE	IOIIOWING	

- 1. The nutcracker is an example of the lever.
- 2. The in plant is surrounded by two guard cells.
- 3. The filament of the light bulb is made of
- 4. An solar eclipse is formed when the moon is located in an orbit higher than the Earth.

[B] The affecting force of a first class lever equals 500 Newtons and the length of its arm is 20 cm. and the resistance of 200 Newtons.

- 1. Calculate the length of the resistance arm.
- 2. Is this lever conserve effort and why?

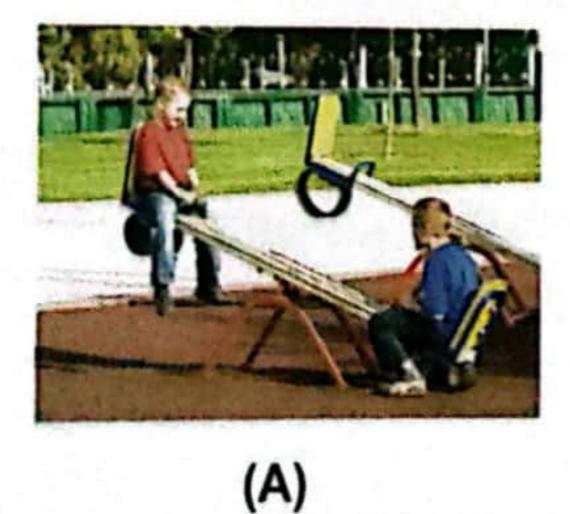
2. [A] Correct the underlined words:

- 1. Fires resulted from electricity are extinguished by water. (..........)
- 2. The root system in plants is responsible for photoynthesis process.

3. The third class levers has the fulcrum between the force and the resistance.

4. The phenomenon of the lunar eclipse occurs at the end of the lunar month.

[B] Look at the following figures then answer:



(B)

1. Determine the type of levers (A) and (B).

2. Determine the importance of lever (B).

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(....)

1	[A] Choose the correct	it answer :		
•	1. Plant loses water	In the form of water		
	a. photosynthesis	3.	b. transpiration.	
	c. evaporation.		d. condensation	
	2. The fluorescent la	amp contains the in	ert gas	
	a. hydrogen	b. nitorgen	c. arogn	d. helium
	3 eclipse c	occurs when the mo	on enters the sem	i-shaded area only in
	this case the mod	onlight turns to be fa	aint.	
	a. No lunar	b. Partial lunar	c. Total lunar	d. Total solar
	4. Electric wire must	be covered with	,,,,,,,,,	
	a. copper.	b. iron.	c. lead.	d. plastic.
	[B] What happen if	?		
	1. The swelling of th		tains air instead of	inert gas.
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	2. The force arm and	d the resistance arr	n are equal.	
_				
4.	[A] Write the scientific	term:		
	1. It occurs to the mo	on when it comple	tely enters the sha	adow area of
	the Earth.			()
	2. It occurs when the	moon comes betw	veen the Earth an	d the Sun. ()
	3. Levers that someti	mes conserve the	effort.	()
	4. The way that the e			er another, and
	the intensity of the	light of the lamps	decrease with the	increase in their
	number.			()
[B]	Give reasons for:			
	1. The heater should r	not be placed touc	ching textiles and	carpets.
	2. Force and resistance	e don't equal in s	econd class level	rs.

Beni Suef Governorate

Administration of Gov. & Dist.Lang. Schools

Answer	the	following	question	10
			Will the State of	

ŧ,	Complete	the	following	statements	
----	----------	-----	-----------	------------	--

- The crowbar is a class lever, while the coal holder is a

 class lever.
- Electric wires are made of because it is a conductor of electricity.
- 3. is a lever used to pick up very small objects.
- 4. In the first class lever the midpoint is

2. Choose the correct answer:

- 1.is a dark inner shadow in which the total solar eclipse appears.
 - a. Umbra

- b. Penumbra
- c. Antumbra
- In series connection by increasing number of lamps the light intensity
 - a. increases.
- b. decreases.
- c. remains constant.
- 3. Lunar eclipse occurs in the of the lunar month.
 - a. start

- b. middle
- c. end
- 4. The distance between the resistance and fulcrum is called
 - a. force arm.

- b. resistance arm.
- c. lever.
- 5. The time taken by solar eclipse is the time taken by lunar eclipse.
 - a. less than

- b. more than
- c. equal to
- 6. Electric fires are put off by using
 - a. water.

b. oil.

c. sand.

3. [A] Put (\(\sigma\)) or (\(\x)\):

- 1. Fluorescent lamp contains neon gas.
- 2. The solar eclipse does not require precautions to be observed.
- 3. The rigid bar of the lever is affected by effort force and resistance force. (

[B] Give reasons for:

- 1. Bottle opener is a second class lever.
- 2. The filament of the light bulb is made of tungsten.

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1. The type of eclipse that 2. Materials allow electricit 3. The type of levers which 4. A way of connection use	y to pass through. n always saves effort, ed to connect lamps i	n houses. (··) ···)
[B] A second class lever aff the resistance force = 50	ected by force = 20 0 N. Calculate the re	N and force arm = 30 cm. II	
F × = R ×			
× =	×		
Resistance arm =			
23 Sohag Governo	rate	Science Inspectorate	
Answer the following question	ns:		
1. [A] Choose the correct ans			
1. Which of the following	is from the indirect i	njuries ?	
a. Electric shock.	b. Electric fire.	c. Falling from ladder.	
2. Partial solar eclipse a		f	
a. umbra.	b. penumbra.	c. antumbra.	
3. The lunar eclipse occ	urs in the o	f lunar month.	
a. end	b. middle	c. beginning	
4. Plant loses water in the	he form of water var	our in	
a. photosynthesis.	b. transpiration.	c. evaporation.	
	cm. and is affecte	equals 500 Newton and the d by a resistance with a value of the resistance.	
			••••••
2. [A] Put (1 or (x):			
1. If the arm of force is lever conserves effort		m of the resistance then the) (
2. More than one type	of solar eclipse car	be observed.	(
3. The fluorescent lamp	contains the inert	neon gas.	(
		on the leaf lower surface.	(

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[B] Give reasons for :

- 1. We should not look directly at the Sun with naked eye.
- 2. Don't place any metallic object in the socket.

3. [A] Write the scientific term:

- 1. The fixed point of a rigid bar on which the bar rotates.
- 2. Materials that allow the electric current to pass through.
- 3. A structure extends from root wall which absorbs water.
- 4. The lunar eclipse in which the whole moon enters the shadow area of the Earth.

[B] What happens if ... ?

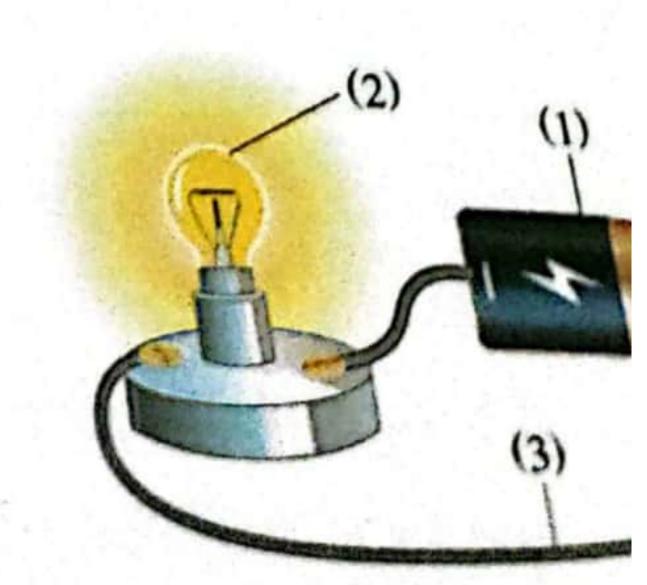
- 1. There is air inside the light bulb.
- 2. The electric fire is put out by water.

[A] Complete the following:

- 1. The crowbar is considered a class lever, but the manual broom is a class lever.
- 2. and are two ways for connecting elecricity.
- 3. and are examples of insulator materials.
- 4. In photosynthesis process plants absorb gas and produce gas.

[B] Look at the figure, then answer:

- 1. The figure represent
- 2. Label the figure:



Luxor Governorate

A STREET, STRE	cuine		A CHICAGO	
or th	he following questi	ons :	Esna Eclucatio	nat Zone
PSW COL	he following question the fixed point of a representation of the following the fixed point of a representation of the fixed point of the fixed poi	ig sentences :		
IAL T	the fixed point of er	igid par la		
	The level a clinker	V8 CON'L CO.	fort.	
	The state of the s	COLL OCCUPIED BY AND		
4. V	Ne must wear speci	en your body is a par al glasses when see	of electric circuit	
41.1	a reasons for ;		Oclines.	•
[B] 1. S	second class levers	always conserve eff		
			orts.	
2. 1	there is no annular	lunar eclipse.	THE RESERVED OF THE PERSON OF	
,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			The state of the s
IA] Wr	ite the scientific te	erm:		international descriptions
4	evers in which, the i	recietan - I		The same of the sa
	They are the materia	als that allow electric	tween force and fu	lcrum /
2.			<u> </u>	- Mills Charles
2. I	t is the way that cor	nducts electricity in	current to pass the	rough (
o. ii	n one rout.	nducts electricity in w	which light bulbs or	rough. (
J. II	n one rout.	nducts electricity in w	which light bulbs or	rough. (
J. II	n one rout.	nducts electricity in w	which light bulbs or	rough. (
3. II 4. II	n one rout. t occurs when the Eine with the moon in	Earth, moon and the n the middle.	which light bulbs or	one straight
3. ii 4. li B] Mei	n one rout. t occurs when the Eine with the moon in t	Earth, moon and the n the middle.	which light bulbs co	rough. (
3. ii 4. li B) Mei	n one rout. t occurs when the Eine with the moon in t	Earth, moon and the n the middle. e of:	which light bulbs co	one straight (
3. ii 4. li 1. L 2. T	n one rout. t occurs when the Eine with the moon in t	Earth, moon and the n the middle. e of: speed:	which light bulbs co	one straight (
3. ii 4. li B] Mei 1. L 2. T	n one rout. t occurs when the Edine with the moon in the moon one example over that increase the way that connect a cose the correct and the moon in the moon in the moon in the moon in the moon one example over that increase the way that connect and the moon in the moo	Earth, moon and the n the middle. e of: speed:	which light bulbs co	one straight (
3. ii 4. li B] Mei 1. L 2. T A] Chi 1. V	n one rout. t occurs when the Edine with the moon in	Earth, moon and the n the middle. e of: speed:	which light bulbs co	one straight (
3. ii 4. li B] Mei 2. T A] Chi 1. V	n one rout. t occurs when the Eine with the moon in the moon one example one that increase the way that connect a Which lever saves reasons. Scissors.	Earth, moon and the n the middle. e of: speed:	which light bulbs co	one straight
3. ii 4. li B] Mei 2. T A] Chi 1. V	n one rout. t occurs when the Eine with the moon in the moon one example one that increase the way that connect a Which lever saves reasons. Scissors.	Earth, moon and the n the middle. e of: speed:	which light bulbs co	one straight (
3. II 4. II B] Mei 2. T A] Chi 2. T	n one rout. t occurs when the Eine with the moon in the moon one example one that increase the way that connect a Which lever saves reasons. Scissors.	Earth, moon and the n the middle. e of: speed:	which light bulbs consumer of the second sec	one straight
3. II 4. II B] Mei 2. T A] Chi 2. T	n one rout. t occurs when the Eine with the moon in the moon in the moon in the moon in the moon one example ever that increase the way that connect a Which lever saves rea. Scissors. The example of lever the moon in the	Earth, moon and the n the middle. e of: speed:	which light bulbs consumers. Sun are nearly on uses:	one straight
3. ii 4. ii B] Mei 1. L 2. T 2. T	n one rout. t occurs when the Eine with the moon in ntion one example ever that increase The way that conne cose the correct at Which lever saves re a. Scissors. The example of lever a. scissors. c. manual broom.	Earth, moon and the n the middle. e of: speed:	which light bulbs consumers. Sun are nearly on uses:	one straight (
3. It 4. It 4. It 2. T A 1. V 2. T 3. T 3. T 3. T	n one rout. t occurs when the Eine with the moon in ntion one example ever that increase The way that conne cose the correct at Which lever saves re a. Scissors. The example of lever a. scissors. c. manual broom.	Earth, moon and the n the middle. e of: speed:	which light bulbs consumers. Sun are nearly on uses:	one straight (
3. ii 4. li B] Mei 2. T A] Chi 2. T 3. T	n one rout. t occurs when the Eine with the moon in ntion one example ever that increase the way that conne oose the correct a Which lever saves re a. Scissors. The example of lever a. scissors. C. manual broom. The phenomenon of a. in the middle	Earth, moon and the n the middle. e of: speed:	which light bulbs consumers. Sun are nearly on uses:	one straight (
3. ii 4. ii B] Mei 1. T A] Cho 2. T 3. T	n one rout. t occurs when the Eine with the moon in the moon one example ever that increase the way that conne oose the correct a Which lever saves re a. Scissors. The example of lever a. scissors. The middle a. in the middle b. at the beginning	Earth, moon and the n the middle. e of: speed:	c. Tweezers. b. tweezers. d. ice holder. ccurs of the	one straight (
3. ii 4. ii B) Mei 1. T (A) Chi 2. T 2. T 3. T 4. T	n one rout. t occurs when the Eine with the moon in the moon one example ever that increase the way that conne oose the correct a Which lever saves re a. Scissors. The example of lever a. scissors. The middle a. in the middle b. at the beginning	Earth, moon and the n the middle. e of: speed:	c. Tweezers. b. tweezers. d. ice holder. ccurs of the	one straight (

PART		
[B] What happens when ?		
1. The electric fires are put out by water.		
2. There is air inside the light bulb.	********	
[A] Correct the underlined words :		
1. Crowbar is from third class lever.	(·····	
 The moon is colored in <u>orange</u> at the start of total lunar ed Electric shock occurs when plugging more than one made 	chine in)
one socket.	(
4. The lunar eclipse can be seen in the morning. [B] Mention one importance of:	(,
1. Base of light bulb :		
2. Fluorescent lamp :		
25 Aswan Governorate Aswan Educat	tional Zone	
Answer the following questions :		
[A] Complete the following :		
1. The filament of the light bulb is made of		
2. Plants do process to make their own food.		
3. The crowbar is a class lever, but the manual bro	om is a	
class lever.		
4. In the solar eclipse lies between the Earth and t	he Sun.	
[B] In the opposite circuit:		
1. The bulbs are connected in		
2. What happens if the bulb number 2 is burnt?	Milly Salliffy	- SAND
		C
	1) (2)	—(°
		,
[A] Write the scientific term :		
1. Materials that don't allow electricity pass through it.	(.	
2. A tool used to convert the electric energy into light energ	y. (·	
3. The fixed point of the rigid bar.	(,
4. The faint outer shadow area.	(*****
7. The familiant outer shadow area.		
	CS CamSo	cann
		CS

The state of the s		Final Exa	minations	
Blue reasons for: Sive reasons is surro Each stoma is surro The	unded by two guard cel	ls.		
1 Each should not look	directly at the Sun with	the naked eye.		
Al The spiral base has				-
or (hase has	two pieces of lead.			,
The spiral of the mo	on is white in the total is always conserve effort	lunar eclipse.	ì	1
The color class lever	on is white in the total is always conserve effort electricity are put out to	ort.	ì	١
3. The first one sulted from	electricity are put out b	by water.	ì	í
CIICO	is affected by force = 5 = 200 N. Calculate the			
Al Choose the correct 1. Duration of lunar 6 a. 6	eclipse extends for mo b. 2	re than ho	ours. d. 1	
a. 6 2 The effort force ar	nd resistance force are	e measured by	d. 1 d. hertz.	
a. 6 2 The effort force ar	nd resistance force are	e measured by	ours. d. 1 d. hertz.	
a. 6 2. The effort force are a newton. a. newton. The fluorescent la	nd resistance force are b. meter. amp contains the inert	e measured by	d. 1 d. helium	
a. 6 2. The effort force are an ewton. 3. The fluorescent land.	nd resistance force are b. meter. amp contains the inert b. nitrogen	e measured by	d. hertz.	
a. 6 2. The effort force ar a. newton. 3. The fluorescent la a. hydrogen 4. From the electric a. wood.	nd resistance force are b. meter. amp contains the inert b. nitrogen conductors b. rubber.	e measured by	d. hertz.	
a. 6 2. The effort force ar a. newton. 3. The fluorescent la a. hydrogen 4. From the electric a. wood.	nd resistance force are b. meter. amp contains the inert b. nitrogen conductors b. rubber.	c. centimeter gas. c. argon	d. hertz.	
a. 6 2. The effort force are a newton. 3. The fluorescent late a hydrogen 4. From the electric a wood. [B] Write the label on	nd resistance force are b. meter. amp contains the inert b. nitrogen conductors b. rubber.	c. centimeter gas. c. argon c. iron.	d. hertz. d. helium d. wool.	
a. 6 2. The effort force ar a. newton. 3. The fluorescent la a. hydrogen 4. From the electric a. wood.	nd resistance force are b. meter. amp contains the inert b. nitrogen conductors b. rubber.	c. centimeter gas. c. argon c. iron.	d. hertz.	
a. 6 2. The effort force are an ewton. 3. The fluorescent late and an ewton. 4. From the electric and an ewton. 4. From the electric and an ewton. 1	nd resistance force are b. meter. amp contains the inert b. nitrogen conductors b. rubber.	c. centimeter gas. c. argon c. iron.	d. hertz. d. helium d. wool.	
a. 6 2. The effort force are an ewton. 3. The fluorescent late and an ewton and an ewton. 4. From the electric and an ewton. [B] Write the label on an ewton.	nd resistance force are b. meter. amp contains the inert b. nitrogen conductors b. rubber.	c. centimeter gas. c. argon c. iron.	d. hertz. d. helium d. wool.	



1 Cairo Governorate

Manor House International Schools

Answer	the	foli	owi	ng	quest	tions	:
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Complete the following statements :	
The fluorescent lamp contains the inert gas and a little am	ount of
If the effort force is larger than the resistance force, is long the	ger than
The eclipse doesn't harm the eye, while eclipse of harm to eye.	causes
4. Electric lamps convert energy into energy.	
5. The fixed point where the rigid bar rotates on is called	
6. The rotates around the Earth in shape orbit.	
7. Levers were first described by a scientist whose name is	
Write the scientific term :	
The method of connecting electric lamps and machines at home.	()
2. A phenomenon occurs when a part of the Moon lies in umbra.	()
3. The type of levers where the effort force is always smaller than	
	()
• [A] Give reasons for :	
 We can't see the Sun during the solar eclipse. 	

2. Water pump is a first class lever.	
	······
3. We must not touch any electric machine with wet hand.	

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Final Examinations

~	Cairo Governorate
	Cairo Governorate

2	Cairo Governorate Patriarchal Co	llege
Answei	the following questions :	
1. [A] C	Complete the following statements :	
	The values of effort force and resistance force depend on and	
2	2. Increasing the temperature of the electric machines may	cause
:	3. The inner surface of the tube of the fluorescent lamp is cov	vered with
4	4. Theleads to destroying the tissues of the body.	
	5. The lever saves effort if the arm is shorter than	arm.
•	 phenomenon always occurs when the Moon hide during its movement in front of it. 	es the Sunlight
[B] '	What happens ? Why ?	
	 A piece of glass is inserted in a closed simple electric circuit. 	
	2. The electric fires are put out by water.	
2. [A]	Write the scientific term :	
	 One of the dangers of electricity occurs as a result of the electric current through the human body. 	passage of the
	It is an eclipse that occurs when a part of the Moon enter of the Earth.	s the shadow area
	3. Falling a person from a ladder as a result of electric shoc	k. ()
	The area appears between the lighted area and the real shad	
	can see a part of the light source if we stand in this area.	()
[B]	Mention the function of :	
	1. Filament.	
	•••••••••••••••••••••••••••••••••••••••	······
	2. The battery in the electric circuit.	

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[C] Mention 2 difference parallel.			ind connection in

***************************************	***************************************		

	and the second second		
[A] Choose the correct			
Plugging more that	n one machine to d		
a. electric shock.		b. electric fire	
c. overload.		d. overload ar	nd electric fire.
The lunar eclipse of	occurs in the	phase.	
a. new Moon	b. crescent	c. full Moon	d. first quadratur
3. The electric shock	may cause		
a. electric fire.		b. electric ove	rload.
c. electric burn.		d. no correct a	answer.
4. When the Moon loo	oks slightly faint, it	indicates	
a. total lunar eclips	se.	b. partial lunar	r eclipse.
c. partial solar eclip	ose.	d. no eclipse.	
[B] What is meant by	2		
Electric circuit :			
1. Lieotrio circuit .			
2. Total lunar eclipse			
[C] The exerted force of	a lever equals 20	O N and the reci	etanco unive
is 1000 N. If the arm	The second secon		
resistance and what			ind dilli or

1. The electric	lamp converts electric energy into kinetic energy.	(
	connect more than one lamp in series, the light intensity by increasing their numbers.	(
3. The crowba	ar is considered from the third class lever but it saves effort.	(
4. The duration	on of solar eclipse is less than the duration of lunar eclipse.	(
1. Don't look	s for: directly at the Sun with naked eye during the solar eclipse.	
2. In second	class levers, the effort force is always less than resistance	for
C] Mention 4 pr		
	recautions on dealing with electricity.	
ditional questio	recautions on dealing with electricity.	
ditional questional Complete the	recautions on dealing with electricity. Ins ine following statements :	
A] Complete th	recautions on dealing with electricity. Ins process to make their own food.	
A] Complete the	recautions on dealing with electricity. ne following statements: process to make their own food. consists of root system and	
A] Complete the 1. Plants do 2. Any plant B] What happe	recautions on dealing with electricity. ne following statements: process to make their own food. consists of root system and ons if ?	
A] Complete the 1. Plants do 2. Any plant (B) What happe	recautions on dealing with electricity. ne following statements: process to make their own food. consists of root system and	

المحلصر علوم لنات (Notebook) / ٢٠٠/ تيرم ١ (م: ١٢)

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Cairo Governorate

Basateen & Dar Al Salam Educational Administration

Answer the following questions:

. [A] Choose the correct answer :

- 1. The phenomenon of the lunar eclipse occurs on the day of the lunar month.
 - a. 10th

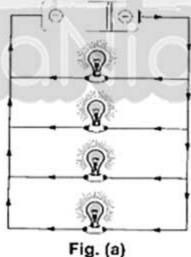
- b. 14th
- C. 25th
- d. 28th
- 2. Lever that has the fulcrum between the force and the resistance
 - wheelbarrow.
- b. seesaw.
- c. nutcracker.
- d. tweezers.
- 3. Tungsten is preferred to use in electric lamps because of
 - a. its low melting point.

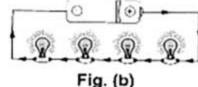
b. its high melting point.

c. its bad conductivity.

- d. its high boiling point.
- 4. In second class lever if the distance between resistance and fulcrum 15 cm ,so the distance between effort force and fulcrum must be equal
 - a. 5 cm.
- b. 20 cm.
- c. 15 cm.
- d. 10 cm.

[B] From the opposite figures (a) and (b) answer the following questions:





- What is the way of connection in each circuit? a. b.
- 2. What happens when the light bulb number (2) in each circuit burns out ?

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

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Final Examinations

2. The electric fires	are put out by water.	***************************************
. [A] Write the scientifi	c term :	
 Type of levers th 	at always doesn't save effort.	(
	rent through the human body.	passage (
It occurs when the of the Earth.	ne whole Moon enters the semi - sh	aded area (
4. A tool that chang	es electric energy into light energy.	(
[C] (1) Look at the fol	lowing figure and answer the foll	lowing:
[C] (1) Look at the fol	lowing figure and answer the foll	Y @
(2) When whole Mo	lowing figure and answer the foll	
(2) When whole Mo	lowing figure and answer the foll (2) (3) (3) (4) (5) (6) (7) (7) (8) (8) (8) (9) (9) (9) (10) (10) (10) (10) (10) (10) (10) (10	

[B] Compare between the solar and lunar eclipse. (two points only).

•••••••••••••••••••••••••••••••••••••••
••••••••••••••••••••••••••••••••••••

[C] These people are wearing a special type of glasses to observe an astronomical phenomenon.

- a. What is the name of this phenomenon?
- Mention the reason for using these glasses to observe this phenomenon.

4. [A] Correct the following sentences without changing the underlined words:

- Glass tube in the light bulb contains mercury vapour.
- 2. The type of levers which never save effort is the 2nd class levers.

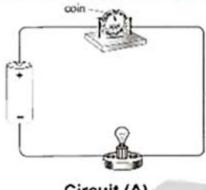
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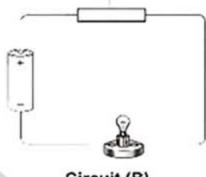
- Copper and iron are electric insulators.
- 4. The coal holder is used in increasing distance.

[B] Give reasons for :

- Solar and lunar eclipse can be predicted.
- 2. The heater shouldn't be placed in a touching position of textiles and carpets.

[C] Look at the opposite figures, then answer the following:





Circuit (A)

Circuit (B)

Which circuit becomes closed when the wire is connected to the light bulbs? Why?

Additional questions

- [A] Put (√) sign in front of correct statements and (x) sign in front of false statements:
 - 1. Osmosis is a biological process in which the plant loses water in the form of water vapour.
 - The outermost layer of the plant's root is cortex.
- [B] Give reasons for the following:
 - Plants make photosynthesis process.
 - The two guard cells change their shapes from time to time.

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Cairo Governorate

East Nasr City Educational Directorate

Answer the following questions:

- . Write the scientific term :
 - The fixed point of a rigid bar.
 - Levers that sometimes conserve the effort.

(-----) (-----)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

والمطالعات الأنطاط الأنطاط المطاع المطاع المطاع

B] Give reasons for :		. and .	
1. Seesaw is the 1st c	lass lever and wheel	barrow is 2 nd cla	ass lever.
	······································	·····	······
2. Water is not used to	o out out electric fire	s.	
		······	
•••••			
litional questions			
A] Complete the follow	ing statements :		
1. Any plant consists of	of root system and		
2. Plants lose water in	the form of the water	er vapour through	n proce
B] Write the scientific t	erm of the followin	a:	5
1. Openings through			piration process
n oponings amongin	mor the plant ende	good indicate,	(
2. The root layer, whe	re the root hairs ever	and	(
Cairo Governo		Saint Mary's S	chool
wer the following ques	tions :		
A] Choose the right ans			
1. Glass bulb in electr		gas.	
a, hydrogen	b. oxygen	c. argon	d. nitrogen
2. The eclips	e takes place when	a part of the Moo	on lies in the
shadow area of Ear	rth.		
a, total lunar	b. partial lunar	c. total solar	d. partial sola
From the second cl	ass lever is		
a. sweet holder.	b. crowbar.	c. nutcracker.	d. seesaw.
4. The filament of the	electric lamp is mad	e up of	
a. iron.			
	b. tungsten.	c. copper.	d. aluminium.
5. ···· is a fixed p			d. aluminium.
 Resistance 			d. aluminium.
	b. Force	c. Fulcrum	1 TO TO TO THE PORT OF THE POR
a. Resistance	b. Force	c. Fulcrum	d. Lever
a. Resistance 6. The electric lamp of	b. Force onverts the electric e	c. Fulcrum energy to the	d. Lever energy.

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2+2 9

Final Examinations

 [A] Complete the following statements: 1. There is a conservation of effort for the first class levers if the 	is	
larger than		
2. The manual broom is an example of the levers.		
3. You can not put out the electric fire with water because water	is	
4. The lunar eclipse may last for more than		
5. Thelever may have effort arm equals the resistance	arm.	
[B] Label this figure :		,
①	7 (8))
②		
③	3 2	
[C] In the second class lever, the effort force is 50 Newton and cm. if the resistance arm is 5 cm. Calculate the value of the		16
cm. if the resistance arm is 5 cm. Calculate the value of the		
cm. if the resistance arm is 5 cm. Calculate the value of the	resistance.	
cm. if the resistance arm is 5 cm. Calculate the value of the [A] Put (√) or (×) in front of the following :	resistance.)
cm. if the resistance arm is 5 cm. Calculate the value of the [A] Put (√) or (×) in front of the following: 1. The lunar eclipse can be easily seen from the surface of the least of the	resistance.)
 cm. if the resistance arm is 5 cm. Calculate the value of the second class lever. 1. The lunar eclipse can be easily seen from the surface of the letthe naked eye. 2. The scissors is a second class lever. 3. Indirect injuries of electricity result from falling from top of a land 	Earth by)
 cm. if the resistance arm is 5 cm. Calculate the value of the second class lever. 1. The lunar eclipse can be easily seen from the surface of the second class lever. 2. The scissors is a second class lever. 3. Indirect injuries of electricity result from falling from top of a lad due to an electric shock. 	Earth by))
 IA] Put (√) or (x) in front of the following: 1. The lunar eclipse can be easily seen from the surface of the letthe naked eye. 2. The scissors is a second class lever. 3. Indirect injuries of electricity result from falling from top of a ladue to an electric shock. 4. Parallel connection has many branching routes. 	Earth by)))
 [A] Put (√) or (x) in front of the following: 1. The lunar eclipse can be easily seen from the surface of the lithe naked eye. 2. The scissors is a second class lever. 3. Indirect injuries of electricity result from falling from top of a ladue to an electric shock. 4. Parallel connection has many branching routes. 5. The Moon revolves around the Earth in an oval shape orbit. 	Earth by ((dedder ((((((((((((((((((())))))
 IA] Put (√) or (×) in front of the following: 1. The lunar eclipse can be easily seen from the surface of the letthe naked eye. 2. The scissors is a second class lever. 3. Indirect injuries of electricity result from falling from top of a ladue to an electric shock. 4. Parallel connection has many branching routes. 5. The Moon revolves around the Earth in an oval shape orbit. 6. The rate of occurrence of lunar eclipse is two eclipses per year. 	Earth by ((dedder ((((((((((((((((((())))))
 cm. if the resistance arm is 5 cm. Calculate the value of the control of the following: 1. The lunar eclipse can be easily seen from the surface of the following the naked eye. 2. The scissors is a second class lever. 3. Indirect injuries of electricity result from falling from top of a ladue to an electric shock. 4. Parallel connection has many branching routes. 5. The Moon revolves around the Earth in an oval shape orbit. 6. The rate of occurrence of lunar eclipse is two eclipses per year. 	Earth by ((dedder ((((((((((((((((((())))))
 IA] Put (√) or (×) in front of the following: 1. The lunar eclipse can be easily seen from the surface of the letthe naked eye. 2. The scissors is a second class lever. 3. Indirect injuries of electricity result from falling from top of a ladue to an electric shock. 4. Parallel connection has many branching routes. 5. The Moon revolves around the Earth in an oval shape orbit. 6. The rate of occurrence of lunar eclipse is two eclipses per year. 	Earth by ((dedder ((((((((((((((((((())))))

العاصو علوم ثقات (Notebook) / ٢ب/ تيم ١ (م: ١٢)

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2. [A] Match:

(A)	(B)
1. Third class lever	a. levers that always save the effort.
2. Second class lever	b. levers that never save the effort.
3. Lever	c. levers that sometimes save the effort.
4. First class lever	 d. a rigid bar rotates around a fixed point and is affected by a force and a resistance.

[B]	The exerted force of the first class lever equals 500 Newton and the
	ength of its arm is 20 cm and is affected by a resistance with a value of
	200 Newton. Find the value of the arm of the resistance.

2.

The fixed point of a rigid bar on which it rotates.

J. Write the scientific term :

2. Levers that have the effort force between the resistance ar	nd the fulcrum.
	()
3. The way where the bulbs are connected by branching routes	and the lighting of

- the lamps isn't affected with increase in their numbers.
- 4. One of the dangers of the electricity occurs as a result of the passage of the electric current through the human body.
- Occurs when part of the Moon enters the shadow area only. 6. Occurs when the Moon hide all sunlight and we can't see the Sun totally.

(-----)

4. [A] Give reasons for :

- The filament of the light bulb is made of tungsten.
- 2. Not placing flammable materials too close to the electric machine which produces heat energy.
- No annular lunar eclipse is formed like the annular solar eclipse.

100

	curs as a result of passing arough the human body.	(
	AND THE STATE OF T	
3. The electric lamp is to light energy.	used to change kinetic energ	(
. [A] Write the scientific term	m for each of the following	:
1. The way where the bu	albs are connected by branch	ing routes. (
2. Materials that allow el	ectricity to pass through.	(
3. A rigid bar that rotate	around fixed point and has el	fort force
and a resistance force	9.	(
4. It is a closed and cont	tinuous path through which th	e electric current passes
		(
[B] Give a reason for :		
The filament of electric la	amp is made of tungsten.	
· · · · · · · · · · · · · · · · · · ·		
[A] Choose the correct an	iswer:	
1. All the following are b	ad conductors of electricity e	xcept
a. copper.	b. plastic.	c. rubber.
2. The lunar eclipse occ	curs in the of the luna	ar month.
a. end	b. middle	c. beginning
3. All the following are fr	rom the importance of levers	except
a. increasing force.		c. increasing speed.
	ever that always save effort.	
a. First	b. Second	c. Third
	m and the registance arm i	2 cm if the recistance
IDI If the favor own in F or		
[B] If the force arm is 5 cr		5 2 cm, ii the resistance
[B] If the force arm is 5 cr force is 10 N. Calculat		s z cm, n the resistance
force is 10 N. Calculat		

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Final Examinations

2. One of the dangers of electricity that results from the passing of an electric current through the human body. 3. A fixed point which the bar rotates around. 4. The lunar eclipse in which the whole Moon lies in the umbra area of the Earth. [B] Calculate the length of the force arm in a lever if you know that the value of the froce is 100 N, the resistance is 200 N, and the length of the resistance arm is 20 cm.	. [A] Write the scientific term :			
2. One of the dangers of electricity that results from the passing of an electric current through the human body. 3. A fixed point which the bar rotates around. 4. The lunar eclipse in which the whole Moon lies in the umbra area of the Earth. [B] Calculate the length of the force arm in a lever if you know that the value of the froce is 100 N, the resistance is 200 N, and the length of the resistance arm is 20 cm. 3. [A] Choose the correct answer: 1	1. Substances that don't all	ow electricity to pass.		()
3. A fixed point which the bar rotates around. 4. The lunar eclipse in which the whole Moon lies in the umbra area of the Earth. [B] Calculate the length of the force arm in a lever if you know that the value of the froce is 100 N, the resistance is 200 N, and the length of the resistance arm is 20 cm. 3. [A] Choose the correct answer: 1	2. One of the dangers of ele	ectricity that results from the		()
4. The lunar eclipse in which the whole Moon lies in the umbra area of the Earth. [B] Calculate the length of the force arm in a lever if you know that the value of the froce is 100 N, the resistance is 200 N, and the length of the resistance arm is 20 cm. 3. [A] Choose the correct answer: 1	A			()
value of the froce is 100 N, the resistance is 200 N, and the length of the resistance arm is 20 cm. 3. [A] Choose the correct answer: 1	4. The lunar eclipse in which		e umbra	()
a. Fishing hook 2. The inventor of the electric lamp is a. Daniel Rutherford. b. Edison. c. Newton. 3. From the electric insulator substances is a. rubber. b. iron bar. c. aluminium bar. 4. When the whole Moon enters the semi-shaded area of the Earth occurs. a. solar eclipse b. lunar eclipse c. no eclipse [B] Give reasons for: 1. Water is not used in putting out electric fires.	value of the froce is 100	ne force arm in a lever if y N, the resistance is 200 N	ou kno	w that the ne length of the
a. Fishing hook 2. The inventor of the electric lamp is a. Daniel Rutherford. b. Edison. c. Newton. 3. From the electric insulator substances is a. rubber. b. iron bar. c. aluminium bar. 4. When the whole Moon enters the semi-shaded area of the Earth occurs. a. solar eclipse b. lunar eclipse c. no eclipse [B] Give reasons for: 1. Water is not used in putting out electric fires.				a.
2. The inventor of the electric lamp is a. Daniel Rutherford. b. Edison. c. Newton. 3. From the electric insulator substances is a. rubber. b. iron bar. c. aluminium bar. 4. When the whole Moon enters the semi-shaded area of the Earth occurs. a. solar eclipse b. lunar eclipse c. no eclipse [B] Give reasons for: 1. Water is not used in putting out electric fires.			c. Bo	ottle opener
3. From the electric insulator substances is		tric lamp is		
a. rubber. b. iron bar. c. aluminium bar. 4. When the whole Moon enters the semi-shaded area of the Earth occurs. a. solar eclipse b. lunar eclipse c. no eclipse [B] Give reasons for: 1. Water is not used in putting out electric fires.	a. Daniel Rutherford.	b. Edison.	c. N	ewton.
4. When the whole Moon enters the semi-shaded area of the Earth	3. From the electric insular	tor substances is		
a. solar eclipse b. lunar eclipse c. no eclipse [B] Give reasons for: 1. Water is not used in putting out electric fires.	a. rubber.	b. iron bar.	c. al	uminium bar.
a. solar eclipse b. lunar eclipse c. no eclipse [B] Give reasons for: 1. Water is not used in putting out electric fires.	4. When the whole Moon	enters the semi-shaded are	a of the	Earth
[B] Give reasons for : 1. Water is not used in putting out electric fires.	occurs.			
Water is not used in putting out electric fires.	a. solar eclipse	 b. lunar eclipse 	c. ne	o eclipse
Water is not used in putting out electric fires.	[B] Give reasons for :			
		tting out electric fires.		
2. Second class levers always save effort.				
Second class levers always save effort.				
Z. Second class levers amays days once.	2 Second class levers at	ways save effort.		
	Z. Second class levers at	mayo sare energ		

103)

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***************************************		er may be equal to re	solution atti,	
2. Looking at the	lunar eclipse cause	es great harms for ey	yes.	(
	amp contains little a	mount of mercury v	apour and argor	1
gas.				(
4. The human bo	dy is a bad conduct	or of electricity.	***************************************	(
[B] What happens v	vhen ?			
		oheric air from inside		
1. The electric la	mp contains atmosp	the force arm in the		
1. The electric la	mp contains atmosp			
The resistance ditional questions	arm is longer than	the force arm in the		
2. The resistance ditional questions [A] Choose the corre	arm is longer than	the force arm in the	lever.	
2. The resistance ditional questions [A] Choose the corre	arm is longer than	the force arm in the	lever.	esis
2. The resistance ditional questions [A] Choose the correct of the plant makes a. respiration	ect answer: b. digestion	the force arm in the	lever.	esis
2. The resistance ditional questions [A] Choose the correct of the plant makes a. respiration	ect answer: b. digestion	ugh process	lever.	esis
2. The resistance ditional questions [A] Choose the correct the plant make a. respiration 2. The stoma in a	ect answer : es its own food through the b. digestion plant is surrounded b. three	ugh process	s. d. photosynth	esi

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمستعلقة

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n	Alexandria Governorate
3 V	Alexandria doscritorate

El-Agamy Educational Directorate

Answer t	he i	oll	OW	ng	ques	tions	:
----------	------	-----	----	----	------	-------	---

- 1. Crowbar is considered from levers of class, while the manual broom is considered from levers of class.
- 2. The filament of the electric lamp is made of because it has a high
- 3. Harms of the electric shock depends on and and

2. [A] What happens when ...?

- The whole Moon enters the penumbra area of the Earth.
- The glass bulb of the light bulb is filled with air instead of argon gas.

[B] Choose the correct answer:

- 1. All of the following are from the importance of the levers except
 - b. increasing distance. a. increasing force.
 - d. saving effort. c. decreasing the speed.
- 2. From the materials which are the electric insulators
 - c. copper. b. rubber. a. iron.
- 3. From the levers that are used to avoid danger is
- c. seesaw. b. scissors. a. coal holder.
- 4. The astronomical phenomenon that occurs to the Moon when Earth
- comes between the Sun and the Moon is
 - annular solar eclipse.
- b. total solar eclipse.

c. lunar eclipse.

d. solar eclipse.

3. [A] Give reasons for each of the following:

- The nutcracker is considered a second class lever.
- The glass bulb of the light bulb is filled with inert argon gas.

.....

المحاصر على لدات (Notebook) / ٢ ب/ نيرو ٢ (م : 11)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر



d. lead.

d. wheelbarrow.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

والمطالعات المطالع الم

10 Alexandria Governorate	East Zone Educational Directorate
Answer the following questions :	
1. [A] Complete the following sentence	ces:
	um and the force is called, while the se and the fulcrum is called
2. Electric lamps convert	
straight line.	and the Earth are on a
 Iron is considered as conductor of electricity. 	onductor of electricity, while wood is
[B] What happens if ?	
1. A part of the Moon enters the	shadow area of the Earth.
2. The electric lamps in the hous	ses are connected in series.
2. [A] Write the scientific term for ea	
 The fixed point of a rigid bar. 	(
the electric current through th	
3. An inert gas that is found in the	e glass bulb of the electric lamp. (
[B] The exerted force of the first cl of its arm is 20 cm, and is affect Find the value of the arm of the	ass lever equals 500 Newton and the length ed by a resistance with a value of 20 Newton e resistance.
	······································
3. (A) Put (V) in front of the correct st	atements and (x) in front of the wrong ones :
Water is used to put off electr	
2. The second class levers save	

3. The effort force is measured in centimetre or metre.

Crowbar is an example of the first class levers.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ



स्मिक्कुशाल्याक्याक्रिया

[B] Give reason	for each	of the	following	
-----------------	----------	--------	-----------	--

	 Doctors warn from the direct observation of the Sun during solar eclipse.
	······································
	•••••••••••••••••••••••••••••••••••••••
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2. The Moon is coloured in red at the start of the total lunar eclipse.

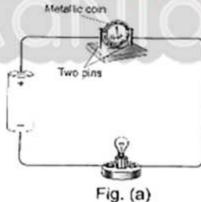
4. [A] Choose the correct answer:

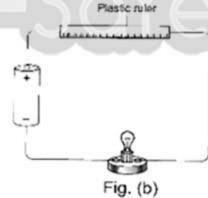
- 1. Which of the following levers is used to avoid dangers
 - a. coal holder.
- b. scissors.
- c. manual broom.
- 2. The duration of the solar eclipse is than the duration of the lunar eclipse.
 - a. greater

b. less

- c. equal
- 3. All of the following levers don't save effort except
 - a. ice holder.
- b. hockey bat.
- c. nutcracker.
- 4. When the electric lamp connected in parallel with others in the electric circuit, the light intensity
 - a. decreases.
- b. increases.
- c. doesn't change.

[B] Look at the following figures, then answer:





In which figure the light bulb will light up when the electric wires connected to the bulb? And why?

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Final Examinations

A) What happens	s if ?				
The two guard cells of a stoma cannot change their shapes.					
2. A plant is ke	ept in dark for a lon	g period of ti	me.		
[B] Put (√) sign statements :	in front of correc	t statements	and (x) sign	in front	of fal
	water in the form of inside the plant ste				(
1 Alexandria	Governorate	El-Gom	ok Educational	Director	ate
swer the followin	ig questions:				
	Maria III and Annual Property of the Control of the	ents:			
[A] Complete the	e following statem curs when Earth, Noon in the middle.		n are nearly or	one stra	ight lir
(A) Complete the	following statem curs when Earth, N	foon and Sur			
1 occ with the Mo 2. Iron is conselectric 3. The bottle of	following statem curs when Earth, N	fic, v	while wood is o	considere	
(A) Complete the 1	curs when Earth, Moon in the middle. didered as an electronic pener and wheelb broom is levers of	nic, varrow are lever the	while wood is overs of the	considere	d as a
(A) Complete the 1	curs when Earth, Non in the middle. idered as an electronic pener and wheelb broom is levers of the first classem and is affected in	fic, vo	while wood is divers of the	considere kind	d as a
(A) Complete the 1	curs when Earth, Noon in the middle. idered as an electronic pener and wheelb broom is levers of the first class and is affected in tance arm.	fic, varrow are level thess lever equal by a resistan	while wood is overs of the with a value	and the	d as a
1	curs when Earth, Noon in the middle. idered as an electronic pener and wheelb broom is levers of the first class and is affected in tance arm.	floon and Sur	while wood is overs of the with a value with a value	and the	d as a
(A) Complete the 1	curs when Earth, Non in the middle. idered as an electronic pener and wheelb broom is levers of the first class and is affected in tance arm.	floon and Sur	while wood is overs of the with a value with a value	and the	d as a
(A) Complete the 1	curs when Earth, Non in the middle. idered as an electronic pener and wheelb broom is levers of the first class and is affected in tance arm.	fic	while wood is divers of the with a value with a value	and the	d as a

2. Force arm is a	sometimes equal to resistance a	rm in class lever.
a. first	b. second	c. third
Operating mo	re than one machine from one s	ocket causes an
a. electric fire		c. electric shock.
Lunar eclipse	can be seen only in of	lunar month.
a, the middle	b. at the beginning	c. at the end
[B] Give reasons for	r:	
1. The second cl	ass levers have mechanical ben	efits and conserve efforts.
2 You must not l	look dispally at the Constant	
Z. You must not i	look directly at the Sun during so	olar eclipse.
3. [A] Write scientific	term:	
The way where lighting of lamp	the bulbs are connected by braces.	nching routes
2. The fixed point	of a rigid bar rotates on.	()
3. One of electric	dangers that causing damage o	f body tissues. (
	who invented the lever.	()
[B] What happens v	when ?	
	lies in the Earth's umbra. (shade	ow) () (

A man touches	an uncovered wire carrying elec-	ctric current.

4. The figure represer [A] Label the figure:	nts the light bulb:	0
① ···············		
②		2 + TT7)-3
③		@-\ \\ /
④		
⑤		-9
[B] The type of numb	er ⑤ is	•
/ -		
1440		

110

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W2+2.

9,

Final Examinations

Additional questions	
[A] Complete the following statements: 1. Plants lose water in the form of the water vapour through.	process.
2. Any plant consists of root system and	ood. ()
12 Alexandria Governorate Middle Zone Educational	Directorate
nswer the following questions :	
[A] Complete the following statements :	
The type of lever always conserves effort, while the state of the state	ne type
always doesn't conserve effort.	урс
2. Some levers make the tasks perform more easily by avoid	ing
3. Water pump is a class lever, while is a th	
4. From the types of electric lamps are and and	
5. The phenomenon occurs when the hides part of the Earth.	s sunlight from a
[B] What happens when ?	
A spark resulting from the electric fires touches any part of a h	numan body.
[A] Write the scientific term :	55 52
 A way of electric connection, in which light intensity of bulb the increase in their number. 	s decreases by
A part of light bulb that connects the base with the filament of the lamp.	t (
One of the dangers of electricity causes damage to the body tissues.	(

[B] Compare between solar and lunar eclipse according to the following :

Points of comparing	Solar eclipse	Lunar eclipse
The body that hides sunlight:		
Occurrence time :	***************************************	
Duration time :		

J. Choose	the correct	answer
-----------	-------------	--------

 The force that is ex 	xerted to equilibrate	the resistance is cal	led				
a, fulcrum.	b, effort.	c. friction.	d. fulcrum & effort.				
2is/are use	ed to pick up very sm	all objects.					
a. Coal holder	b. Tweezers	c. Manual broom	d. Seesaw				
3. The effort force an	d the resistance force	e are measured in -					
a. Newton.	b. Hertz.	c. metre.	d. cubic centimetre.				
4. Which of the follow bulb ?	ving is found in fluore	escent lamp and is n	ot found in electric				
a. Neon.	b. Argon.	c. Mercury.	d. Water vapour.				
5. Connecting more th	Connecting more than one electric device in the same socket leads to						
a. electric shock.		b, overload.					
c. electric burn.		d. electric shock & burn.					
6. The Moon seems re	The Moon seems red when it is totally in the of the Earth.						
a. umbra area		b. penumbra area					
c. extension of the cone shadow		d. no correct answer					

4. [A] Calculate the following:

1.	Find the length of resistance arm if you know that the effort force is 200 N, the force arm is 20 cm. and affects on a resistance of 400 N.				

2.	Does the lever save effort or not ? Why ?				

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Final Examinations

2. Pressing on the	chest of electric injured	with palms.	
tional questions		-	
] Choose the correct	ct answer:		
1. Root hairs extend	d from cells of	layer.	
a. epidermis	b. cortex	c. endodermis	d. xylem
2. Tiny holes in the	plant leaves are called		
a. roots.	b. stoma.	c. seeds.	d. root hairs.
Give reasons for t	he following:		
1. Each stoma is su	irrounded by two guard	cells.	
Al Qaliubya Gov	ernorate Af	Resala Langua	ge School
		Resala Langua	ge School
er the following qu	estions :	Resala Langua	ge School
er the following quality Complete the following	estions : owing statements : onsidered a lev	Day	e 0
Complete the following of the considered a	estions : owing statements : onsidered a lev	ver but the man	e 0
Complete the following of the considered a	estions : owing statements : onsidered a lev	ver but the man	ual broom is
conductors. Ter the following quality of the	estions: owing statements: onsidered a lever. ar eclipse are a	ver but the man	ual broom is
er the following que Complete the follo 1. The crowbar is of considered a	estions: owing statements: onsidered a	ver but the man	ual broom is als that are el
Complete the following quality of the crowbar is considered a	estions: owing statements: onsidered a	ver but the man	ual broom is als that are el, while the tric circuits.
2. The types of lever levers that always. The light bulb co.	estions: owing statements: onsidered alev lever. ar eclipse arear exa s that always conserved s doesn't conserve effort	ver but the man	ual broom is als that are elder, while the tric circuits.
considered a	estions: owing statements: onsidered a	ver but the man	ual broom is als that are e

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W2+2 0

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W

[B] Correct the underlined words:				
 In the third class levers the force arm may be equal to the resistance arm. 	(}	
To observe lunar eclipse you need special glasses.	(()		
We put off electric fires by water.	()			
The fluorescent lamp contains inert gas neon.	((·······) (······)		
5. The fishing hook is an example on first class levers.	(
The lunar eclipse occurs five times per year.	(
Touching the spark that results from electric fires causes electric shock.		•••••	}	
 When the effort force = 20 N, resistance is 8 N and the effort arm = 4 cm, so the resistance arm = 100 cm. 	force		.)	
2. [A] Put (√) or (x):			_	
The spiral base has two pieces of lead.		()	
It is safe to observe the solar eclipse with naked eyes directly		()	
The effort arm is measured in centimetre or metre.		()	
 On connecting the light bulbs in series, the lighting of the bulb by increasing the number of bulbs. 	s decrea	ses (;)	
Touching a naked wire that has an electric current passing the causes an electric fire.	rough it	()	
6. Bottle opener is a kind of levers that pick up the very small ob	jects.	()	
[B] What happens when ?	$^{\circ}$	7	2000	
Both of force arm and resistance arm equal 10 metres.				
2. A part of your body touches an electric iron that is connected	to electri	city.		
3. The Moon comes between the Sun and the Earth on one strain	ght line.			
[C] Write the labels, then answer:	1 (00)	2	
1. ①	1 /11	1		
②	_ 11			
3	(3)			
4	4			
(114)				

2+2.

Final Examinations

2.	The state of the s	uld bein order to th	
	a. closed.	b. opened.	c. unimportant.
3.		of wood in this circuit, it will t	
	a. closed.	b. opened.	c. both (a) and (b).
A] W	rite the scientific te	erm :	
1.	The faint outer shad	ow area.	(
2.	The fixed point of a	rigid bar on which the bar ro	otates. (
3.	Effort force × Its arm	= Resistance × Its arm.	(
	The metal that is use fluorescent lamp.	ed in making the filament of	the (
	The type of lunar ec	lipse in which the whole Moonth.	on enters
6.	The type of levers th	nat its mid-point is the effort	force. (
[B] G	ive reasons for :		
1.	The light bulbs are o	connected in parallel in the h	nouse.

2.	The nail clipper save	es effort.	
[C] G	ive an example for		
1.	A first class lever tha	at saves effort :	
2.	An increasing speed	d lever:	
3.	A type of material th	at covers the inner surface of	of fluorescent lamp :
4.	A precaution that yo	u should follow on dealing w	vith electricity:
[A] CI	hoose the correct a	nswer:	
		he total lunar eclipse, the Mo	oon colour tends to be
	a. yellow.	b. orange.	c. red.
	lacescales the tomo	perature of the electric machine	ines causes
2.	increasing the temp	relatione of the electric mach	incs causes

115

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

No. ② represents the area.

حهاب المحاد

2+2

Final Examinations

dditional questions	
[A] What happens if ?	
Root system is not extended between the soil particle	es.
There is no osmosis feature in the plant.	
[B] Complete the following statements :	
Plants do process to make own food.	
2. The outermost layer of a plant root is called	
Menofia Governorate Shebeen El-Koum Educ	cational Directorate
Menofia Governorate Shebeen El-Koum Educations: [A] Complete the following statements: 1. From the first class lever ———————————————————————————————————	r eclipse.
[A] Complete the following statements: 1. From the first class lever ———————————————————————————————————	r eclipse.
[A] Complete the following statements: 1. From the first class lever ———————————————————————————————————	r eclipse.
[A] Complete the following statements: 1. From the first class lever ———————————————————————————————————	r eclipse. n and and declass levers
(A) Complete the following statements: 1. From the first class lever ———————————————————————————————————	r eclipse. n and and declass levers

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रिया क्ष्यान्या क्ष्या

Final Examinations

The first man	who described the lev	er was Archimede	es. (
The arm of for	ce is shorter than the	arm of resistance	in
the third class	lever.		(
and the arm of	t class lever was afforce 20 cm and was of the resistance arm	affected by resi	

[C] Label the figure	:		
			0-100
②			
③			\A/
<u> </u>			4
•			
(A) What happens	f ?		
	cells of the stoma ca	nnot change their	shapes.
2. A plant is kept	in dark for a long per	iod of time.	
[B] Choose the cor	rect answer:		
	is a vital process, who	ere the plant is	water.
a. gaining	b. absorbing	c. losing	d. (a), (b) and (c)
	water by		
2. Plant absorbs			
Plant absorbsa. flowers.	b, root hairs.	c. stem.	d. leaves.

Answer the following questions :

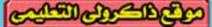
1. [A] Complete the following statements :

- 1. The class levers sometimes save effort.
- 2. In connecting all parts of the electric circuit, it will be circuit.
- 3. If a dark object gets in the way of light, of the object is formed.
- 4.is an example of levers that is used to perform tasks accurately.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصيفة





പ്രത്യവാത്രത്തിക്കു

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر المطالب المتعادل المتعادل المعاد المع

Final Examinations

A] Correct the underlined words :	
1. The scissors is used to increase the spec	ed. (
 The Moon gets coloured <u>blue</u> at the begin eclipse. 	nning of the lunar
3. The outer faint shadow of the Earth is called	ed antumbra. (
4. The lead wire carries the light bulb in upr	ight position. (
B] Look at the opposite figure, then comple	te the following:
The electric lamps are connected in	
If one of the electric lamps in the circuit burnt, the lightning of the other	Lamp (1)
lamps,	Lamp (2)
because	Lamp (3)
	The second second
ditional questions	The state of the s
A] Put (√) sign in front of correct statement statements :	ts and (x) sign in front of
A] Put (√) sign in front of correct statement	ts and (*) sign in front of cortex.
A) Put () sign in front of correct statement statements: 1. The outermost layer of the plant's root is one of the plant's roo	ts and (x) sign in front of cortex. If water to the xylem.
A] Put () sign in front of correct statement statements: 1. The outermost layer of the plant's root is of the pl	ts and (x) sign in front of cortex. If water to the xylem.
A) Put () sign in front of correct statement statements: 1. The outermost layer of the plant's root is of the pl	ts and (x) sign in front of cortex. If water to the xylem.
A) Put () sign in front of correct statement statements: 1. The outermost layer of the plant's root is of 2. Endodermis layer regulates the passing of the scientific term of the following: 1. The vital process by which green plants in 2. The energy needed for the plant to form it	ts and (x) sign in front of cortex. If water to the xylem. Inake their own food. (
A) Put () sign in front of correct statement statements: 1. The outermost layer of the plant's root is of the pl	ts and (x) sign in front of cortex. If water to the xylem. Inake their own food. (
A) Put () sign in front of correct statement statements: 1. The outermost layer of the plant's root is of 2. Endodermis layer regulates the passing of the scientific term of the following: 1. The vital process by which green plants in 2. The energy needed for the plant to form it	ts and (x) sign in front of cortex. If water to the xylem. Inake their own food. (

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रिया क्ष्यान्या क्ष्या

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

Final Examinations

• [A] Put (<) or (x) :						
1. Tweezer is a type of	f 3 rd class lever.	()				
2. The first class lever	s always conserve effort.	()				
3. The human body is	The human body is bad conductor of electricity.					
4. The solar eclipse or	4. The solar eclipse occurs at night.5. Electric overload may cause electric fires.6. The presence of wood in the electric circuit make it opened.					
5. Electric overload ma						
6. The presence of wo						
[B] Give reasons for :						
The third class level the effort.	ers are very important altho	ough they do not conserve				
2. Electric lamps are	connected in parallel in the	home.				
3. Occurrence of total	I lunar eclipse.					
4. The filament of ligh	nt bulb is made of tungsten					
. [A] Choose the correct	answer:					
1. Levers were descri						
a. Newton.	b. Faraday.	c. Archimedes.				
2. Electric wires must	be covered with					
a. plastic.	b. iron.	c. aluminium.				
3. The phenomena of	f eclipse does not	occur to the Moon.				
a. partial	b. annular	c. total				
4. The arm of resistar	nce in the class le	ver may be equal effort arm.				
a. first	b. second	c. third				
The phenomena of month.	f lunar eclipse occurs on th	eday of the lunar				
a. 5th	b. 14 th	c. 25 th				
		123				

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى المحاسم الانتجاب المحادة المحا

Final Examinations

a. Scissors	b bt tonnelses	a Coal holder
	b. Nutcracker	c. Coal holder
[B] The figure represents	the light bulb,	9
look then write what the	ne numbers indicate :	
①		30-(-(\)
②		/ 14/
③		
④		
[C] Problem :		0 100
If a first class lever is a	affected by a force = 500 N	N and its arm = 20 cm.
and the resistance force	ce = 200 N. Calculate the	resistance arm.

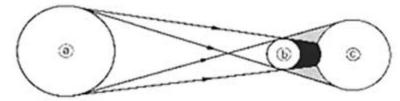
2. The fluorescent lan		s and a little ofver, while the fishing hook is

	s represent two electric	
[B] The following figure:		
[B] The following figure:	a) which the light bulbs are	circuits (a) and (b):

- 1. The fixed point at which the lever rotates around.
- 2. One of the dangers of electricity that causes the damage of the body tissues.
- 3. It occurs when the whole Moon enters the shadow area of the Earth. (-----)
- 4. A rigid bar that rotates around a fixed point and affected by an effort force and a resistance force.

[C] Notice the following figure, then answer the following questions:

- The figure represents an astronomical phenomenon which is
- 2. Write the labels (a,b and c) in the figure :
 - (a)
 - (b) ------
 - © -----



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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر

2+2.

Final Examinations

2. Part of	Moon enter	s the shadow a	rea of the E	arth.			
BI Put (1	or (se) in fre	ont of the folio	wing:	****************			••
and the second second	Committee of the second	ers has the res		een the fo	orce		
and th	e fulcrum.					(
2. The M	oon is colou	red in red at th	e start of tot	al lunar e	clipse.	(
3. The se	da water op	oener is an exa	mple of sec	ond class	lever.	(
4. Fires	esulted fron	n electricity are	put out by v	vater.		(
1		precaution wh					
			************	*************			
ditional que						-	
ditional que	stions	A				h	
ditional que	the correct	answer:				ì	-
(A) Choose 1. The p	the correct	answer:		process		1	is
(A) Choose 1. The plant response	the correct ant makes in	answer:	oughc. s	process	d. photo	1	is
(A) Choose 1. The plant response	the correct ant makes in piration	answer: ts own food thr	oughc. so	process	d. photo	1	is
[A] Choose 1. The plant responsible a. responsible a. two	the correct ant makes in biration to oma in a pla	answer: ts own food through digestion ant is surround b. three	oughed byc. fo	process ensation guard o	d. photocells.	1	it
(A) Choose 1. The plant response at two (B) Write the 1. Parts	the correct ant makes in biration to oma in a pla	answer: ts own food thr b. digestion ant is surround	c. so	process ensation guard o	d. photo: cells. d. five	synthes	
(A) Choose 1. The plant respondence of the standard respon	the correct ant makes in biration to oma in a plant scientific in the plant to	answer: ts own food thr b. digestion ant is surround b. three term of the fo	c. seed by	process ensation guard c our	d. photo: cells. d. five	synthes	

<u>උද්දේශය</u>

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

स्थान्त्रिया क्ष्यान्या क्ष्या

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى **والمسوية**

Final Examinations

special devices to look	r. It require precaution, warn at it.	(
P.O.C	r eclipse and lunar eclip Solar eclipse	Lunar eclipse
Reason:		
Time of occurrence :		
Complete the labels :		9
0		To the trans
②		3) — /I.\
③		N/ = /H
④		
tional questions		
] What is meant by ?		
Osmosis feature.		

Selective permeability	' .	

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى في المعلم

2+2.

Final Examinations

Most electric lamps contain argon gas inside.	

Second class levers always conserve the effort.	
[B] Correct the underlined words in the following statments	:
1. Connecting the electric lamps in the house must be in se	ries. (
 Solar eclipse occurs when the Earth comes between the the Sun. 	Moon and
 Light becomes more bright when we connect more than series. 	one bulb in
 Fluorescent lamp contains oxygen gas inside. 	(
[A] Put (V) or (x) in front of the following:	
Lunar eclipse causes harms to the eyes.	,
We must not play with electric connections.	
Copper and iron are insulators to electricity.	,
4. Third class levers don't conserve the effort.	
[B] Complete the following statement :	
Lunar eclipse can be seen in any place on the and colour of the Moon tends to be	when it starts to
Iditional questions	
[A] Write the scientific term of the following:	
 It loses water from the plant in the form of water vapour. 	(
A system in the plant that is branched and extended through the soil to fix the plant.	gh (
[B] What is the function of ?	

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصفي

Behiera Governorate | Ismael El-Habrouk Language School |

Answer the following questions :	
1. [A] Complete the following statements :	
Lunar eclipse occurs when the Sun, Earth and and in the middle.	are one straight line
When the force arm is longer than resistance arm, than	is smaller
In the class lever the is between fulc resistance.	rum and the
4. Some of the types of electric lamps are and .	***************************************
[B] Give reasons for :	
The filament of the light bulb is made of tungsten.	
2. Some levers save effort.	
2. [A] Correct the underlined words :	
The lever consists of fulcrum only.	(
The inner surface of the tube of the fluorescent lamp carbonic material.	is covered with
Nutcracker is one from the first class lever.	(
 Touching the naked wires that has an electric current electric fire. 	, ,
[B] What is the importance or uses of ?	,
The inert argon gas in the light bulb.	***************************************
Special glasses in the solar eclipse.	

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ

Final Examinations

The second secon	the scientific	term of each of th	ne following:	
1. The		ssors is one examp		()
2. The	lunar eclipse	in which the whole	Moon enters the shad	ow
	a of the Earth.			()
3. For	ce x Its arm =	Resistance × Its ar	rm.	()
4. A ri	gid bar that rot	ates around a fixed	points and is affected	i
	•	and a resistance fo		()
(B) What	happens who	en ?		
	the second secon		tion of the fluorescent.	
2 Th	e resistance fr	orce is larger than the	he effort force.	
2. 111	e resistance ic	nce is larger than to	no enort force.	

IAI Choo	se the correct	t answer:		
			pse, the colour of the	Moon tends
	be	/==> (=		
	gray.	b, yellow.	c, orange.	d. red.
		g used to avoid dar		
	coal holder.	g used to avoid do.	b. wheelbarrow.	
			d, manual broom	
100.1	scissors.	i		
			nd in the fluorescent la	mp but not
	the light bulbs		b. Argon.	
	Neon.			
	Mercury vapou		d. Water vapour	
			are measured in	
a.	Newton	b. metre	c. centimetre	d. Hertz

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى 🍱

Final Examinations

	Wood is considered a good conductor to electricity.			
4. The force is fi	xed point that a rigid b	par sits on.	(
[B] What happens i				
1. You place the	electric heater too clos	se to furniture and ru	ugs.	
***************************************		······	······	
2. A part of Moon	enters the shadow area	a of the Earth.		
	•••••			
[A] Choose the corr	rect answer:			
 The fluorescent 	lamp contains the iner	t gas.		
a. hydrogen	b, nitrogen	c, argon	d. helium	
	se occurs when the Me ne Moon light turns to	1 2 9990	-shaded area only.	
a. No lunar	b. Partial lunar	c. Total lunar	d. Total solar	
3 is exa	ample of materials tha	t are electric conduc	ctors.	
a. Wood	b. Glass	c. Plastic	d. Copper	
4. The electric la	mps are connected in	the house in		
a. series.	b. parallel.	c. variable.	d. (a) and (b).	
[B] Look at the follo	owing figure,		1	
then write the la	abels on the figure:		1 (%)	
0	**************************************	D 655		
②				
③		4	2	
④		L	_ 1 _	
. [A] Write the scient	tific term for each of	the following state	ments:	
 A rigid bar rota 	ates around a fixed po	int, and is affected b		
resistance.			(
2. It occurs to the	e Moon when it compl	etely enters the sha		
Earth.			(
3. One of the da	ngers of the electricity	is causing the dama		
the body.			(
4. Levers that so	metimes conserve the	e effort.		
			135	

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوي

المراب ال

Science

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Final Examinations

2. [A] Write scientific	term:		
1. A force that r	esults from the body that we wa	ant to move.)
	er that sometimes conserves eff)
	f electricity in electric circuit.	()
4. Astronomical	Astronomical phenomena occur when the Sun, Earth and the Moon in one straight line and the Moon in the middle.		
[B] 1. The opposit	e figure represents		
2. Label the figure 1 cm. 2 cm	ire:	œ-(T))—③
③			
		-	4)
3. [A] Correct the un	derlined words :		
1. The electric of	current has many branches whe series connection.	n the electric lamps are	·····)
2. Scissors is a	third class lever.	(·····)
3. Total lunar ed	clipse occurs when the whole of	Moon enters	
penumbra a	rea.	()
4. The filament	is made of <u>iron</u> .)
[B] Give reasons (for:		
1. Third class I	ever always does not save effor	rt.	
***************************************			*********
2 Mo wear so	ecial glasses during solar eclips	•	
2. We wear sp	ecial glasses during solar ecips	G.	
•••••			
4. [A] Choose the co	rrect answer		_
	e Moon's faint outer shadow in v	which the partial solar eclip	se
appears.			
a. Umbra	b. Penumbra	c. Antumbra	
	ا تيرم ۲ (م : ۱۸)	1 المحاصد عدونات (Notebook) / ٢ب	137)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى في المعلم

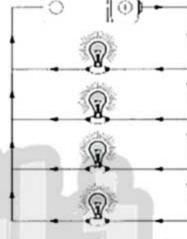
2	is use	d to prevent	the air from	reaching	the filament.
---	--------	--------------	--------------	----------	---------------

- a. Base of bulb
- b. Glass bulb
- c. Tungsten
- Time taken by solar eclipse is time taken by lunar eclipse.
 - a. equal

b. shorter

- c. longer
- 4. In second class lever, in the middle.
 - a. fulcrum
- b. effort force
- c. resistance force

[B] Write the type of each connection and which of them is used to connect the electric lamps inside the house and why?



1. connection

10

2. connection

3. We use ----- inside the house, because -----

Additional questions

[A] What happens if ... ?

There is no osmosis feature in the plant.

[B] Give reasons for the following:

- The two guard cells change their shapes from time to time.
- Plants make photosynthesis process.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

Final Examinations

23	Assuit Govern	orate
LU	Commence of the commence of th	

Administration of Governmental Language Schools

Language School	X5	10
Answer the following questions :		
1. Complete the following statements: 1. The type of levers where the arm of the force and the arm of resistance are equal is		
equal is		
Complete the following statements: 1. The type of levers where the arm of the force and the arm of resistance are equal is 2. In the solar eclipse,		
	Ite following statements: If levers where the arm of the force and the arm of resistance are It eclipse,	
		one: ()
4. The manual broom is a class lever.		
2. [A] Put (V) or (x) in front of each statement and correct the	wrong one :	
	()
current through it.	electric ()
	er ()
Lunar eclipse occurs in the end of lunar month.	()
5. Human body is a good conductor of electricity.	- U)
[B] What happens when ?		
Putting off the electric fires with water.		
The light bulb in the house are connected in series.		
3. [A] Write the scientific term :		_
 Way used to connect electric lamps in branching routes. 	()
2. It occurs when part of the Moon enters the shadow area		
of Earth	()
	13	9)

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمسوية

ما المحادث الم

2+2.

Final Examinations

	Sohag Governorate Science Inspectorate		4
nswe	r the following questions :		
- [A]	Complete the following statements :		
	1. In first class levers, the fulcrum is found between and		
	The crowbar is an example of theclass levers.		
	3. The law of levers states that		
	4. The fluorescent lamp contains gas.	20	
[B]	A force of the first class lever equals 500 Newton and its force arm : cm calculate the resistance arm given that the resistance is 200 Newton		n.
		.,	
	······································		
[A]	Put (√) or (x) in front of each statement and correct the wrong one	9 :	
	1. Electric shock occurs as a result of passage of the electric current to the		
	human body.	(
	0 0	,	•••
	Connecting electric lamps in the house is in series.	(
	3. Although the two phenomena of lunar and solar eclipses attract people	e's	
	attention, they do not affect life on Earth.	(
			•••
	4. If the injured with an electric shock can't breathe start immediately arti	ficia	ıl
	respiration.	'	
(B)	What happens if ?		
[-]	The light bulbs in the house are connected in series.		
	***************************************	*****	
[C]	Mention precautions in dealing with electricity (two only).		
_	Write the scientific term in each of the following :		-

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى في المعلم

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

Final Examinations

dditional apportions			
dditional questions			
[A] Write the scientific term of the foll	lowing:		
 A system in the plant that is branc 			
the soil to fix the plant.			
2. It loses water from the plant in the form of water vapour. {			
[B] Give reasons for the following:			
Plants make photosynthesis process	\$.		
25 South Sinai Governorate	Science Inspectorate		
nswer the following questions :			
[A] Complete the following statements			
1. In the third class levers, the	lies between and fulcrum.		
2. From electric insulators	and		
From the components of the electric	ric circuit electric wires, switch and		
Solar eclipse occurs when on the same straight line.	lies between the and the Sun		
Er Til			
tissues.	s that causes damage of the human body		
tissues.			
tissues. 6. Sweet holder is an example of	ut electric fires.		
tissues. 6. Sweet holder is an example of [B] Give reasons for: 1. We cannot use water in putting out	ut electric fires.		
tissues. 6. Sweet holder is an example of [B] Give reasons for: 1. We cannot use water in putting out	ut electric fires.		
tissues. 6. Sweet holder is an example of [B] Give reasons for: 1. We cannot use water in putting out 2. Some levers are important to man	ut electric fires. n although they don't save effort.		
tissues. 6. Sweet holder is an example of [B] Give reasons for: 1. We cannot use water in putting out 2. Some levers are important to man [A] Choose the correct answer: 1	ut electric fires. n although they don't save effort.		

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوا

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2+2.

Final Examinations

resistance and the lever saves effort	t. ()
In the second class levers the force the resistance.	arm may be equal to
B] Compere between :	•••••••••••••••••••••••••••••••••••••••
Total lunar eclipse	Partial lunar eclipse
[C] Join from column (A) with the suitable (A)	e in column (B) :
1. Fishing tool	a. connect the electric current.
2. Seesaw	b. source of the electric current.
3. Nutcracker	c. sometimes saves effort.
4. Two pieces of lead in the base of the light bulb	d. always save effort. e. always don't save effort.
1,	34.
A] Write the scientific term :	
	etween force and fulcrum. ()
A coiled thin wire made of tungsten	
A way in which the light bulbs are co where the light intensity of the bulbs	decreases by increasing
their numbers.	()
The fixed point of a rigid bar on which	ch the bar rotates. ()
One of the dangers of electricity occur.	
of electric current through the huma	n body. ()
Levers at which the fulcrum lies betw	een force and resistance. ()
	المعاصد عادم سات (Notebook) / ١ ب/ نيره ١ (م : ١

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوي

2+2.00

[B] In a lever if the length of the force arm = 4 cm, the length of the
resistance force = 6 cm, and the value of the force = 48 N.
Calculate the value of the resistance.
•••••••••••••••••••••••••••••••••••••••
[C] What happens if ?
The electric lamps in decorative lights are connected in series not parallel.
2. The whole Moon enters the semi-shaded area of the Earth.
3. The electric lamps contain atmospheric air.
You place the electric heater too close to furniture and rugs.
dditional questions
[A] Put (√) sign in front of correct statements and (x) sign in front of false statements :
Root hairs extend from the cells of the endodermis layer. ()
2. Water rises inside the plant stem through the wood tissue. ()
[B] What happens if ?
A plant is kept in dark for a long period of time.
Absence of cell membrane of the root hairs.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصوا

Answers of Final Examinations

Cairo Governorate

Manor House International Schools

- 1, argon memury vacour,
 - 2, resistance arm effort force arm.
 - 3. lunar solar
 - 4. electric light
 - 5. fulorum.
 - 6. Moon oval
 - 7, Archimedes,
- 1. Parallel connection.
 - Pertiel lunar eclipse.
 - Second class levers.
- 3. (A) 1. Because it emits harmful rays as ultraviolet (UV) and infrared rays that effects the eye retina and may cause blinchess within few seconds.
 - 2. Because it has fulcrum between the offort force and the resistance force.
 - 3. To avoid occurrence of electric shock as water is a good conductor of eladicity.
 - (B) Fillor force x 'ls arm = Resistance force x its arm

100 x 5 = Resistance force x 20

100 × 5 .: Resistance force -20 - 25 Newton

- This lever does not save effort.
- 4. (A) 1. This lever is a third class lever.
 - 2. The total lunar aclipse occurs.
 - (B) 1. Light bulb.
 - 2. C Glass bulb.
 - Argon gas.
 - (3) Tungston filement.
 - Copper and lead wires.
 - Base of light bulb.

Additional questions

(A) 1. (x)

2. (1;

(B) 1. Photosynthesis process.

Light energy.

(2 Patriarchal College

- 1. (A) 1, the effort arm the resistance arm.
 - 2. electric fires.
 - 3. phosphoric material.
 - 4. electric pums 5. resistance - effort
 - 6. Solar eclipse
 - (B) 1. The electric current doesn't flow through the electric circuit, because glass is a bad conductor of electricity.
 - The fire will increase and could harm. the rescuers, because water is a good conductor of electricity.
- 2. (A) 1. Electric shock.
 - 2. Partial lunar edipse.
 - 3, Ind rect injuries. 4. Penumbra.
 - (B) 1. If heats up and omits tight when the electric current passes through it.
 - 2. It works as a source of electric current n the electric c-rouit.
 - (C) In series connection:
 - The light bulbs are connected one after another in one route.
 - The light intensity decreases by increasing the number of lamps.

In parallel connection:

- The light bulbs are connected in branching routes.
- The light intensity remains constant by increasing or cecreasing the number of lamps.
- 3. (A) 1. d. ovorload and electric fire.
 - 2. c. full Moon
- 3. c. electric burn.
- d. no eclipse.
- (B) 1. It is a closed and continous path through which, the electric current will pass making a complete cycle.
 - 2. It is the unar eclipse which occurs when the whole Moon enters the shadow area (umbra) of the Farth,
- (C) Effort force x Its arm = Resistance force × Its am

 $200 \times 50 = 1000 \times its arm$

∴ Arm of realstance = 200 x 50 1000

- 10 cm.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





- This lever may be first class lever or second class lever.
- (A) *. (x) ... into light energy.
 - 2. (1)
 - 3. (x) ... the first class lever and it saves effort.

 - (B) '. Because it emits harmful rays to the eye such as ultraviolet (UV) and Infrared rays that may cause hlindness within few seconds.
 - 2. Because in the 2nd class levers, the offort force erm is always longer than the resistance arm.
 - (C) a. Do not play with the electric connections.
 - b. Do not insert a metallic object in the
 - c. Do not touch the ejectric machines that are connected to the electric current with wet hand.
 - d. Do not try to fix or clean any electric machine while connected to the electric current.

Additional questions

- (A) 1. photosynthesis
 - 2. shoot system.
- (B) 1. The plent cannot make photosynthesis process due to the absence of light.
 - 2. The stoma cannot be opened or closed.

Baseteen and Dar Al Salam Educational Administration

- 1. (A) '. h. 14"
 - 2. b. seesew.
 - 3. b. its high malting point.
 - 4. b. 20 cm.
 - (B) '. a. Paralle connection.
 - b. Series connection.
 - 2. a. The other three light balbs are lighted up with the same light intensity.
 - b. The other three ligh! bulbs are turned off.

- (C) 1 The solar aclipse occura.
 - 2. The fire will increase and could herm resource as water is a good conductor of electricity.
- 2. (A) 1. Third class levers.
 - 2. Electric shock.
 - 3. Lunar non eclipse.
 - 4. Electric lamp.
 - (B) Effort force x its arm = Resistance force x its arm

500 x 20 = 200 x its arm

- ∴ Resistance arm = 500 × 20 = 50 cm.
- · Yes this lever is in state of balance, because the result of effort force x its arm equals to the result of resistance force x its arm.
- (C) 1. 1 Tho Sun.
 - The Moon.
 - (3) The Earth
 - Earth's umbra.
 - 2, red Earth's atmosphere doesn't absorp infrared rays coming from the Sun and retracts them on Moon.
- (A) 1. Used to pick up very small objects.
 - 2. It protects the filament from burning and increases the lifetime of the tlament.

(B)

Solar collpse	Lunar eclipse	
 It is seen at morning only. 	It is seen at night only.	
2. It causes serious harms to eyes.	2. It doesn't cause any harm to cycs	

- (C) a. The solar eclipse.
 - b. Because the outer solar corona emits ultraviolet (UV) and Infrarec rays that effects the eye retine and may cause blindness within fow minutes.
- 4. (A) 1. ... in the fluorescent lamp contains ...
 - 2. ... which always save ...
 - 3 Wood and plastic ...
 - 4. The manual broom is ...

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر:





Answers of Final Examinations

- (B) 1. Because they occur as a result of the Earth and the Moon rotation which can be calculated by scientists.
 - To avoid occurrence of electric fires.
- (C) Circuit (A), because iron (coin) is a good conductor of electricity which allow the flow of electricity through.

Additional questions

(A) 1. (x)

- 2. (x)
- (B) 1. To make their own food.
 - 2. To open and close the storia.

East Nasr City Educational Directorate

- 1. 1. Fulcrum.
 - 2. First class levers.
 - 3. Thomas Alpha Edison.
 - Parallel connection.
 - 5. Umbra.
 - Annular solar eclipas.
- 2. (A) Effort force x Its arm = Resistance force x Its erm

50 x 20 = Resistance force x 5

.. Resistance force = - 200 Newton

(B) 1. (x) 2. (x) 3. (x)

4. (1)

- 3. 1. mldd e
- 2. Sorar
- doesn't change.
- 4. lungsten.

- the arm of resistance and force are equal.
- 4. (A) 1. 2nd class lever.
 - 2. 3rd class lever.
 - 3. doesn't save.
 - 4. Junar.
 - (B) 1. Because seesaw has fulcrum between the effort force and resistance force. walk wheelbarrow has the resistance force between effort force and fulcrum.
 - 2. Because water is a good conductor of electricity, so it increases fires and could harm the rescuers.

Additional questions

- (A) 1. shoot system,
- 2. transpiretion
- (B) 1. Stomets.
- Epidermis.

Rod El Farag Directorate 5 Saint Mary's School

- 1. (A) 1. c. argon
- 2, h, partial lunar
- 3. c. nutcracker.
- 4. b. tungsten.
- 5. c. Fulcrum
- 6. b. light
- b, the light intensity decreases.
- 8. a. Iron
- (B) 1. Because they are important in other things as :
 - Incressing distance.
 - Increasing speed.
 - Avoid dangers,
 - Accuracy in performance.
 - 2. To prevent turning att all the amps of the house when one lamp is damaged or turned off.
- 2. (A) 1. Electric shock.
 - 2. The solar eclipse.
 - 3. Second class levers.
 - Phosphoric material.
 - 5. Mercury vapour.
 - 6. Total lunar eclipse.
 - (B) 1. This causes an electric enock.
 - When the temperature of the heater Increases, it may burn the furniture and rugs causing electric fires.
 - 3. The eye retina will be harmed and blindress may occur.
- 3. (A) 1. resistance force effort force.
 - 2. thrid class
 - a good conductor of electricity.
 - 4. two hours.
- 5. first class
- (B) (*) Electric bulb.
 - @ Electric wire.
 - Switch.
 - Battery.
- (C) EFort force > Its arm = Resistance force x Its arm

50 x 20 = Resistance force x 5

.: Resistance force =

= 200 Newton

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





كالمقري المالية الكريك الكريك الكريك الكريك المالية

- 4. (A) 1. (V) 2. (x)
- 5.11 6. (1)
- (B) It is a rigid bar (straight or curved) that tolles around a fixed point called fulcrum, and is affected by an effort force and a resistance force.
- (C) 1. A part of your body touches fire or spark resulting from the electric fire.
 - 2. Do not p ay with the electric connections.

Additional questions

- (A) 1. c. losing
- 2. b. root herra.
- (B) 1. (x).

2. (x)

Giza Governorate

Al-Mostakbal Modern Language School

- 1. 1. firs: third
 - 2 light hulb fluorescent lamp.
 - 3. Wood plastic rupber
 - 4, a good conductor of electricity
 - Series connection parallel connection.
 - 6. Moon
- 7. annular
- 2. (A) 1. b
- 2. 8
- 3. d 4. c
- (8) Effort force x lls arm = Resistance force
 - $500 \times 20 = 200 \times 16 \text{ arm}$
 - 500 × 20 .. Resistance arm = 200
 - 60 cm.
- 3. 1. Fulcrum.
- 2. Third class lever.
- Parallel connection.
- 4. Electric shock.
- 5. Partial lunar eclipse
- Total solar ed pse.
- 4. (A) 1. Because it has high melting point that prevents the melting of the filament at high temperatures.
 - To avoid occurrence of electric fires.
 - Because the Earth has a great size relative to the Moon, so it aways blocks a I sunlight when It comes batwoon the sun and the Moor on the same straight line.

- 4. Because the Sur emits harmful rays to the eye such as ultraviolet rays (UV) and infrared ray that may cause blindness within few seconds.
- (B) 1. (√) 2.(1)

Additional questions

- (A) 1. The stoms cannot be opened or glosed.
 - 2. The plant canno: make photosynthesis process due to the absence of light,
- (B) . To make their own food.
 - To open and close the stores.

Experimental Language (7 Schools Inspectorate

- 1. (A) 1. Crowbar sclesors
 - 2. total .unar eclipse partial lunar oclipse.
 - 3, argon mercury vapour.
 - (B) 1. first
- 2. electric shock
- 3. electric
- 2. (A) 1. Para lel connection.
 - 2. Electric conductors.
 - 3. Lever.
- 4. Electric circuit.
- (B) Because it has high melting point that prevents the molting of filament at high terrqueralures.
- 3. (A) 1. s. copper.
- 2, b, middle
- 3. b. increasing size.
- 4. b. Second
- (B) Effort force × Its arm = Resistance force × its arm
 - Effort force $\times 5 = 10 \times 2$
 - .. Fffort force = 10 × 2 = 4 Newton
- 4. (A) 1. (V) 2. (x)
- 3. (x)
- (B) The fire will increase and could harm the rescuers as water is a good conductor of electricity.

Additional questions /

- (A) 1. transpiration
- 2. shoot system.
- (B) 1. Photosynthesis process.
 - Light energy.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى



Alexandria Governorate

Brilliance Language School

- 1. (A) 1, second IIrst
 - 2. tungsten molting point.
 - 3. Solar Moon
 - copper good conductor
 - (B) 1, series.
 - 2. The other two light builts are turned off.
- (A) 1. Electric insulators.
 - 2. Electric shock.
 - 3. Fulcrum.
 - 4. Total lunar eclipse.
 - (B) Effort force x its arm = Resistance force xits arm

100 x its arm = 200 x 20

.. The length of the force arm

200 × 20 = 40 cm.

- 3. (A) 1. a. Fishing hook 2. b. Edlson.
 - 3. a. rubber.
- 4. c. no eclipse.
- (B) 1. Because water is a good conductor of electricity, so it increases fires and could harm the rescuers.
 - 2. Because the effort arm is always longer than the resistance arm, so the effort force is always smaller than the realstance force.
- 4. (A) 1. (x) in the first class lever
 - 2. (x) the solar eclipse
 - 3. (1)
 - 4. (x) a good conductor
 - (B) 1. The filament will burn when it heats up.
 - 2. The effort force 3 larger than the resistance force and the lever doesn't conserve effort.

Additional questions

- (A) 1. d. photosynthesis
- (B) 1. The plant cannot make photosynthesis process due to the absence of light.
 - The stome cannot be opered or closed.

El-Agamy Educational Directorate

- 1. 1. first therd
 - tungsten me ting point.
 - 3, the strength of the electric current that passes through the human body - the time taken by the electric current,
- 2. (A) 1. The Moon light turns to be faint without being eclipsed which is known as lunar non-eclipse,
 - 2. The filament will bur when it heats up.
 - (B) 1, c. decreazing the speed.
 - 2, b, rubber. 3. a. coal holder.
 - 4. c. lunar eclipse.
- 3. (A) 1. Because it has the resistance force between fulcrum and the effort force.
 - 2. To protect the filament of tungsten from burning so the lifetime of the filament increases.
 - (B) 1. Electric lamp. 2. Electric burns.
 - Phosphoric material.
 - 4. Fulcrum.
- 4. (A) Effort force : its arm = resistance force x its arm

400 x 100 = 800 x its arm

- :. Resistance arm 400 x 100 50 cm.
- (B) 1. Lunar eclipse.
 - 2. (f) Moon.
- @ Earth.
- (2) Sun.

Additional guestions

- (A) 1. shoot system.
 - 2. photosynthesis
- (B) To make their own food.

10 East Zone Educational Directorate

- 1. (A) 1. effort arm resistance arm,
 - 2. electric light
 - 3. the Moon the Sun
 - 4. good bad
 - (B) 1. Partial lunar eclipse occurs.
 - When one of the lamps damaged or turned off, all the other lamps in the house will turn off.





- 2. (A) 1. Fulcrum.
- 2. Electric shock.
- J. Argun gas.
- (B) Effort lonce x its arm # Resistance force × Its arm

 $500 \times 20 = 20 \times 18 \text{ arm}$

- ∴ Resistance arm = 500 × 20 = 500 cm.
- 3. (A) 1. (x)
- 2. (1)
- (B) 1. Bacausa the Sun emits harriful rays to the eye such as ultraviolet rays (UV) and infrared rays that may cause blindness within few seconds,
 - 2. Due to the refraction of some infrared rays that are not absorbed by the Earth's atmosphere.
- 4. (A) 1. a. conl holder.
- 2. b. 'ess
- 3. c. nutoracker.
- 4. c. doesn't change.
- (B) Fig. (a), Because iron (metallic coin) is a good concuplor of electricity.

Additional guestions

- (A) 1. The storna cannot be opened or closed.
 - 2. The plant cannot make photosynthesis process due to the absence of light.
- (B) 1. (x)

11

2.1/1

CI Gomrok Educational Directorate

- (A) 1. Soler eclipse
 - 2. conductor insulator
 - 3. second third
 - (B) The law of lever = Effort force x its arm
 - Resistance force x its arm

500 x 20 = 200 >, he arm

- = 50 cm. Rosistance arm =
- 2. (A) 1. c. Meroury vapour.
 - 2. a. first
- 3. a. electric fire.
- 4. a. the middle
- (B) 1. Because the effort arm always longer than the resistance ann, so the effort force is always smaller than the resistance force.

- 2. Because the Sur crits harmly rays to the aye such as ultraviolet rays. (UV) and infrared rays that couse blingness within few seconds
- (A) 1. Parallel connection.
 - 2. Fulcrum.
- 3. Electric burns.
- Archimeces.
- (B) 1. Part al lunar epipse occurs.
 - This causes an electric shock.
- (A) ① Tungsten filament,
- (2) Argon gas,
- ② Copper and leac wire.
- (C) Glass bulb.
- (5) Base of the light bulb.
- (B) spiral base.
- (C) It protects the filament from burning when it heats up and increases its lifetime.

Additional questions

- (A) 1. transpiration
 - 2. shoot system,
- (D) 1. Photosynthesis process.
 - 2. Light energy

Middle Zone Educational 12 Directorate

- 1. (A) 1. second third 2. dancers.
 - 3. first manual broom
 - 4. light bulbs fluorescent Ismpe.
 - 5. solar eclipse Moon
 - (B) This may cause electric burns for a human body.
- (A) 1. Series connection.
 - Copper and lead wire.
 - Electric burns.
 - (B)

Points of comparing	Solar eclipee	Lunar aclipse
The body that hides sunlight:	Moon.	Cartti.
Occurrence time :	It is seen at morning only.	It is seen at night only.
Duration time :	It doesn't exceed seven minutes and few seconds.	It may last for more than two hours.

- 3. 1. b. effort,
- 2. b. Tweezera
- 3. a. Newton.
- 4. c. Mercury.
- 5. b. overload.
- 6. a. umbra area
- 4. (A) 1. Effort force x its arm = Resistance force xits arm $200 \times 20 = 400 \times its arm$
 - ∴ Resisiance arm = $\frac{20 \times 200}{100}$ = 10 cm.
 - Yes, this lever saves effort because the force arm is longer than the resistance arm.
 - (B) *. Because it emits harmful rays to the eye such as ultraviolet rays (UV) and Infrared rays that cause blindness within few seconds.
 - 2. To maintain the heart bests of the intured.

Additional questions

- (A) 1. a. epidermis
- 2. b. stuma
- (B) 1. To control opening and closing the
 - To make their own food.

Al Qaliubya Governorate

- 1. (A) 1, first class third class
 - 2, total lunar eclipse partial lunar eclipse.
 - 3. Iron copper lead
 - 4. second class third class.
 - 5. Parellel connection serios connection
 - 6. the flament the glass bulb the base of the light bulb.
 - 7. effort resistance
 - (B) 1. first
- 2. solar
- 3. sand.
- 4. argon.
- 5. third
- 6. avo
- 7. electric burns.
- 8. = 10 cm.
- 2. (A) 1. (x)

- 3. (>)
- 2. (x) 5. (x) 4. (1) 8. (x)
 - (B) 1. The effort force is equal to the resistance force.
 - 2. This part of your body will expose to electric burn.
 - The solar eclipse occurs.

- (C) 1. (D) Battery.
 - (2) Electric bulb.
 - (D) Switch.
 - (4) Electric wire.
 - 2. a. closed
- 3, b, opened,
- (A) 1. Penumbra.
- 2. Fulcrum.
- 3. The law of levers. 4. Tungsten.
- 5. Total kinar eclipse,
- Third class levers.
- (B) 1. To prevent turning off all the lamps of the house when one lamp is damaged or turned off.
 - 2. Because the effort arm is longer than the resistance arm.
- (C) 1, Crowbar.
- Hockey bst.
- Phosphoric material.
- 4. Do not place several connections in the same socket.
- 4. (A) 1. c. red,
- 2. c. electric fire.
- 3. b. Mercury vapour. 4. c. retina
- 5. c. water pump.
- 6. c. both (a) and (b).
- (B) Effort force x its arm = Resistance force me sti x
 - 500 × 20 200 × its arm
 - ∴ Resistance arm = \frac{500 \times 20}{200} = 50 cm.
 - This lever doesn't save effort because the force arm is shorter than the resistance arm.
- (C) 1. d
- 3. b
- (D) 1. Lunar eclipse.
- 2. Umbra.
- Penumbra.
- 4. Partia: lunar eclipsc occurs.

Additional questions

- (A) 1. The plant cannot be fixed in the soil and also the root cannot absorb water and mineral salts that are necessary for photosynthesis process.
 - 2 Water cannot transport from the soil to the root hairs, so the plant will wilt and die.
- (B) 1. photosynthesis
- epidemnis.







Menofia Governorate

- 1. (A) 1. crowbar 30958W.
 - 2. Muon Earth
 - the strength of the electric current that passes through the human body - the lime taken by the electric current to pass through.
 - 4. nutcracker manual broom
 - (B) 1. It protects the filament from burning when it heats up and increases its
 - 2. To connect the lamp to the electric circuit
- (A) 1. First class lever.
 - 2. Second class lever.
 - 3. Phosphoric meterial.
 - 4. Portiol lunar eclipse.
 - (B) 1. Because the Fant has a great size relative to the Monn, so it always. blocks all sunlight when it comes between the Sun and the Moon on the same straight line.
 - 2. Because the effort arm is always shorter than the resistance arm, so the effort force is always larger than the resistance force.
- 3. (A) 1. u. aluminium.
 - 2. a. nutoracker.
 - 3. a. firs:
 - 4. c. remains constant.
 - (B) 1. Total lunar edipse occurs.
 - 2. The eye reting will be harmed and blindness may occur.
- 4. (A) 1. (X)
- 2. (1)
- 3. (1)
- 4. (1)
- (B) Effort force x Its arm = Resistance force x Its onn 500 x 20 = 200 x Hs arm

 - : Resistance ann = 500 x 20 = 50 cm.
- (C) ① Argon gas,
 - Turasten filament.
 - (i) Glass bulb.
 - 3 Bass: of the light bulb.

Additional questions

- (A) '. The stoma cannot be opened or dosed.
 - 2. The plant cannot make photosynthesis process due to the absence of light,
- (B) 1, c. losing
- 2, b, root hairs.

15 Gharbia Governorate

- 1. (A) 1. first

 - 3. the shadow
 - 4. Twoozora
 - (B) 1. Because it heats up and emits light when the electric curren: passes :hrough it.
 - Because in the second levers. the effort arm is always longer than the resistance arm.
- 2. (A) 1. Rellna.
 - 2. Etoctric insulators.
 - 3. Third class lever.
 - 4. E actric burns.
 - (B) Effort force x its arm = Resistance force
 - 40 a 5 Resistance force x 25
 - .: Resistance force (the weight)

- 3. (A) 1. a. Archimedes.
 - 2. c. no unar
 - 3. b. Mercury vapour.
 - 4. c. wheelbarrow.
 - (B) 1. The solar eclipse occurs.
 - 2. The effort force and the resistance force are equal and this lever doesn't conserve effort.
- 4. (A) 1. nockey but
- 2. red
- ponumbra.
- 4. The base of the light built:
- (B) 1. parellel.
 - 2. doesn't change there are branching routes for the clockric current to pass through the circuit.

anditional guestians

(A) 1. (x)

- 2. (1)
- (B) 1. Photosynthesis process.
 - 2. Light energy.

Dakahlia Governorate (16

- 1. (A) 1. The force ann the resistance arm.
 - increasing force increasing distance.
 - Direct injuries indirect injuries.
 - 4, dosed,
 - argon mercury vapour.
 - Moon Earth three.
 - (B) 1. Second class leves.
 - Yes, it conserves effort.
 - The force arm is longer than the resistance ann.
 - 4. Nutcraker.
- (A) 1. Electric burns.
 - 2. Electric Insulators.
 - Paralel connection.
 - Relina.
 - 5. Penumbra,
 - The law of levers.
 - (B) 1. The filament will burn when it heats up.
 - Partial lunar eclipse occura.
 - 3. The fire will increase and could harm the rescuers as water is a good conductor of electricity.
- 3. (A) 1. (V)
- 2. (x)
- 3. (x)

- 4. (x)
- 5. (1)
- 6. (1)
- (B) 1. Because they are important in other things as:
 - Increasing distance.
 - Increasing speed.
 - Avolo dangers.
 - Accuracy in performance.
 - To prevent lurning off all the lamps of the house when one lamp is damaged or turned off.
 - 3. Because the whole Moon onters tho shadow area (umbra) of the Earth.
 - 4. Because it has high melting point that prevents the melting of the filament at high temperaturea.

- 4. (A) 1. n. Archimedes
- 2, a, plastic,
- 3. b. annular
- 4. a. first
- 5. b. 14th
- 6. a. light
- (B) 1. series.
 - 2. The lamps remain lighting as iron (coin) is a good conductor of electricity.
 - 3. The other two lamps are turned off,

Additional guestions

- (A) 1. To make their own food.
 - 2. To open and close the stoma.
- (B) 1. transpiration.
 - shoot system.

(17 Ismailia Governorate

- 1. (A) 1. a. first
- 2. b. Iron
- c. lunar non-ecliose.
- 4. b. Nulctacker
- (B) (1) Glass bulb.
 - 3) Tungsten filament.
 - Argon gaa.
 - 3) Base of the light bulb.
- (C) Effort force x its arm = Resistance force × Its arm
 - 500 x 20 = 200 x lts arm
 - :. Resistance arm = 500 x 20
 - 200
- 2. (A) 1. force registance
 - 2. argon mercury vapra.s.
 - 3. first third class lover
 - (B) 1, a, Series connection.
 - b. Parallel connection.
 - 2. Circuit (b).
 - 3. To prevent turning off all the lamps of the house when one lamp is damaged or turned off.
 - (C) 1. Increasing speed.
 - 2. Increasing distance.
- 3. (A) 1. Because the effort arm is always longer than the resistance arm, so the effort force is always smaller than the resistance force.
 - 2. Recause the Sun em to harmful rays to the eye such as a traviolet rays (UV) and infrared rays that may cause blindness within few seconds.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخر





والمطالب الكرك الك



- (B) 1, Fulcrum,
- 2. Floatric purns,
- 3. Total lunar eclipse.
 - 4. Lever.
- (C) 1. Solar eclipse.
 - 2. (9) Sun.
- (b) Moon.
- (c) Earth.
- 4. (A) 1. The effort force is equal to the resistance force and this lever doesn't conserve effort.
 - Partial lunar eclipse occurs.
 - (B) 1. (K)
- 2.(4)
- 3. (1)
- (C) 1. Do not place several connections in the same socket.
 - Do not play with the electric connections.

Additional questions /

- (A) 1. d. photosynthesis
 - 2. p. two
- (B) 1. Root nairs.
 - 2. Light energy.

Suez Governorate 18

- 1. (A) 1, effort force fulcrum.
 - 2. second first
 - 3. battery electric wires.
 - 4. argon
- 5. electric current
- (B) 1. (V)
- 2. (x)
- 3. (1)
- 1.(1)

- 2. (A) 1. Fulcrum.
- Series connoction.
- 3. Electric sinp.
- 4. Eleptric insulators.
- (B) 1. To avoid occurrence of electric fires.
 - 2. Because the effort arm is always longer than the resistance arm, so the offort force is always smaller than the resistance force.
- (A) 1, c, copper,
 - 2, a. annular eclipse.
 - a. decreasing speed.
 - 4. c. faint.
 - (B) Effort force a lts and Resistance force x Its ann
 - 200 × 6 = 100 × its arm
 - :. Resistance arm = 200 x 5 = 10 um.
- 4. (A) 1. first
 - 2. Lunar eclipse

(B)

P.O.C	Solar aclipsa	Lunar eclipse
Reason:	It occurs when the Moon comes between Earth and Sun on one straight line.	Farth comes between Moon and Sun on one
Time of occurrence :	It is seen at meming only.	It is seen at night only.

- (C) ① Glass bulb.
 - Tungsten filament.
 - Argon gas
 - Base of the light bulb.

Additional questions

- (A) 1. It is the transmission of water molecules through semi-permeable membrane from an area with high concentration of water in an arran of low concentration of water,
 - 2. It is a process by which the cell membrane of the mot nair allows some types of salts to pass according to the plant's need.
- (B) The stoma cannot be opened or closed.

Kafr El-Shelkh Governorate (19

- 1. (A) 1, a, 2
- 2. b. tungeten.
- 3. a. first
- 4. a. in the morning.
- (B) 1. Electric circuit.
 - 2. The electric will be open, so the electric current does not pass through the circuit and the lamp dopon't light.

3. 0

- 2. (A) 1. b
- 2. c

- (B) 1. Electric conductors.
 - Indirect njuries.
- (A) 1. To protect the flament from burning. so the lifetime of the filament increases.
 - 2. Because the effort arm is always longer than the resistance ann, so the effort force is always smaller than the resistance force.

- (B) 1. parallel, 3. less bright
- Lunar 4. argon
- 4. (A) 1. (x) 2. (V)
- 3. (x)
- (B) Earlt rod.

Additional questions

- (A) 1. Sloma.
 - 2. Root system.
- (B) If fixes the plant in the soil,
 - It absorbs water and mineral salts from the soil.

Behlera Governorate ⟨20 ⟨

- 1. (A) 1. Moon Earth
 - 2. offort force res stance force.
 - 3, third effort force
 - light bulbs fluoreagent lamps.
 - (B) '. Because it has high melting point that prevents the melting of the filament at high temperatures.
 - 2. Because in theze levers, we use a smail force to make a great effort.
- 2. (A) 1, effort force, resistance force and fulcrum.
 - 2. phosphoric material.
 - 3. second
 - 4. electric shock.
 - (B) 1. It protects the flament from burning when it heats up and increases its lifet nre.
 - 2. To protect the eye retina from the hermful rays as ultraviolet (UV) and infrared rays that emit from the Sun and may cause plindness within few minutes.
- 3. (A) 1. First class lover.
 - 2. Total lunar eclipse.
 - 3. The law of levers.
 - 4. Lever.
 - (B) 1. The fluorescent lamp can't be connected to the electricity.
 - 2. The lever saves effort.

- 4. (A) 1. d. red.
 - 2. a. coal holder.
 - 3. c. Mercury vapour,
 - 4. a. Newton.
 - (B) Effort force x Its arm = Resistance force mis sti x

 - $400 \times 20 = 200 \times 20$ 8000 ¥ 4000

Sc. this lever isn't in state of balance because the result of effort force x its arm is not equal to the result of mrs ati x ecnatalser

Additional guestions

- (A) 1. (x)
- 2. (1)
- (B) To open and close the stome.

(21 Fayouni Governorate

- 1. (A) 1. Lunar eclipse Earth
 - 2, second class thire class
 - 3. first third
 - 4. lungster molting point.
 - (B) Effort force x its am1 = Resistance force x Its arm

Effort force $\times 10 = 200 \times 20$

- .. Effort (affecting) force = 200 x 20 = 400 Newton.
- 2. (A) 1. ight 2. second
 - 3. bad 4. Fulcrum
 - (B) 1. When the temperature of hoster increases, it may burn the furniture and rugs causing electric tires.
 - Parlla lunar edipse occurs.
- 3. (A) 1. c. argon
- 2. a. No lunar
- d. Copper
- 4. b. parallel.
- (B) (1) Electric bulb.
- (2) Electric wire.
- :3: Battery.
- (4) Connecting wire.
- 4. (A) 1. Lcver.
 - 2. Total lunar ectipse.
 - 3. Electric purns.
 - 4. First class lever.

- (B) 1. Because the sunlight passes in straight lines and if a dark object like the Moon in solar sclipse or Earth in lunar eclipse obstruct it, a shadow (umbra) is formed.
 - 2. To connect the lamp to the electric circuit.

Additional questions

- (A) Pith Xylem layer Endodermis layer -- Cortex layer ---- Epidermis layer.
- (B) 1. They absorb water and mineral salts 'rom the so l.
 - 2. It regulates the passage of water to the xylem (wood tissue).

El-Minia Governorate (22

- 1. (A) 1. Newton 2. second
 - 3. Thomas Alpha Edison.
 - 4 twice
 - (B) Effort force x its area = Resistance force x Its arm.

500 20 = 200 x Its arm

- .. Resistance arm (Location) = 500 × 20 = 50 cm.
- 2 (A) 1. Resistance force.
 - 2. First class Lever.
 - 3. Battery.
 - Solar eclipse.
 - (B) 1. Light bulb.
 - 2. Ti Glass bulb.
 - (2) Argon gas.
 - (3) lungston filament.
 - (4) Base of the light bulb.
- (A) 1. parallel
- 2. first
- 3. umbra
- 4. lungsten.
- (B) 1. Because the effort arm is always shorter than the resistance arm, so the effort force is always larger than the resistance force.

- To protect our eyes from ultraviolet and infrared rays coming from the Sun that may cause blindness within few seconds.
- (A) 1. b. Penumbra
 - 2. h. Glass bulb
 - 3. b. shorter
 - 4. c. resistence force
 - (B) 1. Series
 - 2. Parellol
 - 3. parallel when one or more lamps burn out, the other lamps don't turn off.

Additional questions

- (A) Water cannot transport from the soil to the root hairs so the plant will will and die.
- (B) 1. To open and close the stoma.
 - 2. To make their own lood.

Assuit-Governorate

- 1. 1. first class lever.
 - 2. Moon Earth.
 - 3. concuctors insulators.
 - 4. third
- 2 (A) 1. (V)
 - 2. (x) The tungsten filamort of the light
 - 3. (x) ..., the lever does not save effort.
 - 4. (x) ... in the middle of lunar month,
 - 5. (1)
 - (B) 1. The fire will increase and could harm the rescuers as water is a good. conductor of electricity.
 - 2. When one of the lamps damaged or tumec off, all the other lamps in the house will turn off.
- (A) 1. Parallel connection.
 - 2. Partial lunar eclipse.
 - 3. Electric burns.
 - 4. Third class level.
 - (B) 1. Because the Sun emits harmful raya to the eye such as ultraviolet ray (UV). and infrared rays that may cause blindness within few seconds.

- 2. Because somotimos in the 12 class levers, the effort arm is longer than the resistance arm.
- 4. (A) 1. Light bulb.
 - 2. 1 Tungsten filament.
 - 2) Glass bulb.
 - (3) Base of the light bulb.
 - (B) Effort force x its arm Resistance force x Its arm

 $50 \times 20 =$ Resistance force $\times 5$

 50×20 .. Resistance force -= 200 Newton

Additional questions

- (A) 1. ruot hairs
- 2. stomata lower
- (B) To make their own foud.

24 Sohag Governorate

- (A) 1. offort force resistance force.
 - 2. first
 - 3. effort force x its arm = resistance force x ds am.
 - 4. amon
 - (B) Effort force x its arm = Resistance force x its arm = 200 x its arm 500 20

500 × 20 : Resistance ann = 200 = 5/0 cm.

- 2 (A) 1. (V) 2. (x) ... in parallel. 3. (1) 4.(1)
 - (B) When one of the lamps damaged or turned off, all the other lamps in the house will turn off.
 - (C) 1. Do not play with the electric connections.
 - Do not insert a metallic object in the sccket.
- 3. (A) 1. Fulcrum.
- 2. Electric lamp.
- 3. Third class levers.
- Electric conductors.
- 5. Partia lunar eclipse.
- Parallel connection.
- (B) '. Because the effort arm is longer than the resistance arm, so the effort force is smaller than the resistance force.

- 2. Because the Sun emits harmful rays to the eye such as ultraviolet rays. (UV) and infrared rays that may cause blindness within lew seconds.
- 3. To prevent turning off all lamps when one or more lamps burn out,
- 4. (A) 1. a. first
 - 2. c. cupper.
 - 3. a. Fishing hook
 - (B) Solar eclipse: Its duration doesn't exceed seven minutes and few seconds. Lunar eclipse: Its duration may last for more than two hours.
 - (C) () Glass bulb.
 - Buse of the light bulb.
 - (3) Tungsten Illament,
 - (4) Argon gas.

Additional questions

- (A) 1. Root system. 2. Storia.
- (B) To make their own food.

254 South Sinal Governorate

- 1. (A) 1. offert force resistance force 3. battery.
 - 2. wood plastic. 4. Moon - Earth
- 5. electric burns
- 8, third class
- (B) 1. Because water is a good conductor of electricity, so it increases fires and could harm the rescuers.
 - 2. Because they are important in other things as:
 - Increasing distance.
 - Increasing speed.
 - Avoid dangers.
 - Accuracy in performance.
- 2. (A) 1. b. Wheelbarrow 2. c. remains as it is.
 - 3. c. iron.
- 4. a. Crowbar
- 5. b. ligh;
- 6. a. less than
- (B) 1. Do not play with the electric connections.
 - 2. Do not place severa connections in the same socket.
- (C) (*) Sur...
- Z Moon.
- 3 Jmhra.
- 4 Earth.

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- J. (A) 1. (x) The fluorescent lamp ...
 - 2. (x) ... is a second ...
 - 3. (1)
- 4. (🗸)
- 5. (x) ... the force less than ...
- 6. (x) In the first class ...

(B)

Total lunar eclipse	Partial lunar eclipse
It is the lunar eclipse which occurs when the whole Moon enters the shadow area (umbra) of the Earth.	It is the lunar eclipse which occurs when a part of the Moon enters the shadow area (umbra) of the Earth,

- (C) 1. e
- 2. c
- 3. d
- (A) 1. Second class levers.
 - 2. Fllament.
 - 3. Series connection.
 - 4. Fulcrum.
- 5. Electric shock.

4. 8

- 6. First class levers.
- (B) Effort force x its arm = Resistance force x its arm - Resistance force x ff
 - : Resistance force = 48 × 4 = 32 Nevrton.
- (C) 1. When one of the lamps damaged or turned off, all the other lamps in decorative lights will turn off.
 - 2. The Moon light turns to be faint without being eclipsed which is known ea lunar non-eclipse.
 - 3 The filement will burn when it heats up.
 - 4. When the temperature of the heater increases, it may burn the furniture and rugs causing fires.

Additional questions

- (A) 1. (K)
- 2(1)
- (B) 1. The plant cannot make photosynthesis process due to the absence of light.
 - 2. The root hairs cannot control passing of some types of salts according to the plant's need.



Cairo Governorate

Cairo Educational Directorate

Answer the following questions	•	,
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inswe	r the following qu	esuons.	
[A]	Complete the fol	lowing statements :	
	1. The scissors ar		ever, while the manual broom
	2. The filament of	light bulb is made of	
	3. The cell member to pass through		y which allows only some salts
	4. The electric over	erload is the reason of occurr	ence of ·····
	5. Materials that a	llow the flow of electricity thro	ough them is called
[B]	Give reasons for	:	
	1. All the second	class levers always conserve	the effort.
	2. Occurrence of	the solar eclipse phenomeno	n.
2 [A]	Write the scienti	fic term for the following st	atements :
	1. A rigid bar that force and resis	rotates around a fulcrum and tance.	l is affected by ()
	2. Losing of exces	ss water in the shape of wate reen parts.	r vapour from the leaves ()
	•	occurs when the Earth come the Sun on the same straight	
[B]	resistance of 200 What is the leng	r is affected by force equal O Newton if the length of res th of the force arm ?	sistance arm is 20 cm.
3 [A]	Choose the corr	ect answer :	
	•	non of the lunar eclipse occur	s in the of the lunar
-	a. end	b. middle	c. beginning

	2. Stomata are widely	spread on the		
	a. stem.	b. upper surface o	f the leaf.	
	c. lower surface of t	the leaf.	•	
	3. Electric wires are co	overed with		
	a. copper.	b. plastic.	c. aluminium.	
	4. The root hairs abso	rb most of soil water by		
	a. transpiration.	b. osmosis.	c. selective permeabili	ί y .
	5. When the resistanc	e is between the effort ar	d the fulcrum it will be	
	a. first	b. second	c. third	
[B] What happens in the 1. There is no glass bu	ulb in the light bulb.		•••••
	2. When the whole Mo	oon enters the semi-shad	ed area of the Earth.	
<u>4</u>) [A			★) in front of incorrect on	e :
	•	e are connected in series.)
	seconds.	ar eclipse does not excee	d seven minutes and few ()
		ns is decreasing speed.	()
	4. Rubber is from insu		ĺ)
	5. Green plant needs	light, water and carbon dicess by root system.	oxide gas to make ()
	6. The fluorescent lam	np contains inert argon ga	as and a little amount	
	of mercury vapour.		()
[8] Define :			
	Partial solar eclipse.		•	
				ar e
2	Giza Governor	rate The Ed	ucational Directorate	
Answ	er the following quest	tions :		
	A] Choose the correct	answer:		
	1. From the functions	of levers is ······		
	a. decreasing the s	speed. b. saving effo	ort. c. decreasing distar	nce.

		ollowing gases is found in the flu	uorescent lamp but not in the
	light bulb ?		c. Mercury vapour.
	a. Argon gas.		
	3. Solar eclipse of straight line wit	ccurs when the Earth, Moon ar	nd the Sun are nearly on one
	a. Moon is bety	ween Earth and Sun.	
	b. Earth is betv	ween Moon and Sun.	
	c. Sun is betwe	een Earth and Moon.	
	4. From the exam	nples of electric insulators is	
	a. copper.	b. wood.	c. iron.
	5. Losing of water process.	r in the form of water vapour fro	om plant is called
	a. osmosis	b. transpiration	c. absorption
[B]	Answer the follo	owing:	
		s if : The root hair doesn't secr	ete a sticky substance.
		3 II . The rect han decent edes	
	2. The exerted for length of its a	orce of the first class lever edure arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
	2. The exerted for length of its a	orce of the first class lever ed	quals 500 Newton and the cted by a resistance with
	2. The exerted for length of its a	orce of the first class lever edure arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
	2. The exerted for length of its a	orce of the first class lever edure arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever edure arm equals 20 cm. and is affe	quals 500 Newton and the cted by a resistance with
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever edure from equals 20 cm. and is affective. Two ton. Calculate the arm of the	quals 500 Newton and the cted by a resistance with e resistance.
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the common statements: an example of the common classics and example with inert common statements.	quals 500 Newton and the cted by a resistance with e resistance.
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever educate arm equals 20 cm. and is affective. Calculate the arm of the arm of the allowing statements:	quals 500 Newton and the cted by a resistance with e resistance.
2 [A]	2. The exerted for length of its a value 200 Nev	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the common statements: an example of the common classics and example with inert common statements.	quals 500 Newton and the cted by a resistance with e resistance. ass levers. gas. is located between Sun
	2. The exerted for length of its a value 200 Nev	orce of the first class lever educate arm equals 20 cm. and is affective. Calculate the arm of the common statements: an example of the	quals 500 Newton and the cted by a resistance with e resistance. ass levers. gas. is located between Sun
	2. The exerted for length of its a value 200 New Complete the for 1. The seesaw is 2. Fluorescent land 3. Lunar eclipse pand Moon. 4. Water is transmitted.	orce of the first class lever educate arm equals 20 cm. and is affective. Calculate the arm of the common statements: an example of the	quals 500 Newton and the cted by a resistance with e resistance. ass levers. gas. is located between Sun
	2. The exerted for length of its a value 200 New Complete the for 1. The seesaw is 2. Fluorescent land 3. Lunar eclipse pand Moon. 4. Water is transmitted.	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the second statements: an example of the second statement of the second state	quals 500 Newton and the cted by a resistance with e resistance. ass levers. gas. is located between Sun
	2. The exerted for length of its a value 200 New Complete the for 1. The seesaw is 2. Fluorescent land 3. Lunar eclipse pand Moon. 4. Water is transmitted five reasons: 1. The second classical contents and classical contents are contents.	orce of the first class lever educated arm equals 20 cm. and is affective. Calculate the arm of the second statements: an example of the second statement of the second state	quals 500 Newton and the cted by a resistance with e resistance. ass levers. gas. is located between Sun hair by feature.

(8) [A	Write the scientific term :		
	1. A fixed point on which a rigid bar rotates around.	(.)
	2. Materials that allow the flow of electric current through them.	(.)
	3. Fires occur due to the increase in temperature of electric device.	(.)
	4. A phenomenon occurs when the Moon comes in an orbit higher from the Earth.	(.)
[8]	Mention one function for each of the following:		
	1. Root system.		
	2. Tungsten filament.		
A [A	Put (\checkmark) in front of correct statements and (x) in front of wr	ong one :	
	1. The third class levers save effort.	()
	While connecting the lamps in parallel, the lamps are connect the other.	ed one after (
	3. The stoma in plant is surrounded by two guard cells.	()
	4. The duration of solar eclipse doesn't exceed seven minutes a seconds.	nd few)
re	The opposite figure represents	(1)	•
E MOST	the structure of electric lamp,		
	write the labels :		
	①		
	②		ര
	3		3
3	Alexandria Governorate The Educational Director	rate	
Answ	er the following questions :		
	Complete the following statements :		
	1. The lever saves effort when its force arm is than the	resistance	
	arm, and the force is than the resistance.		
	2. A little amount of is added to argon gas inside the flu lamp, and the inner surface is covered with material.		
	3 From the had conductors of electricity are and		

[B]		That is the importar The thin walls of the	nce of the following : ne root hairs.		
	2.	The argon gas inside	de the glass bulb of th	e electric lamp.	
2 [A]	CI	hoose the right ans	swer :		
	1.	The total lunar eclip	pse happens when ·····		
		a. the whole Moon	enters the shadow are	ea of the Earth.	
		b. a part of the Moo	on enters the shadow	of the Earth.	
		c. the whole Moon	enters the semi-shade	ed area of the Earth.	
		d. the Moon lies be	etween the Sun and th	e Earth.	
	2.	Water is not used in a. water decreases	n putting out the fires on the fires on the fire.	of electricity, because	······································
		b. water contains n	minerals that disconne	ct electric current.	
		c. impure water is a	a bad conductor of ele	ctricity.	
		d. impure water is a	a good conductor of e	lectricity.	
	3.	The root hair secre	etessubstanc	e that helps in attractir	ng water.
		a. solid	b. sticky	c. soft	d. smooth
[B]	W	hat happens in the	e following with men	tioning the reasons .	?
	1.	. A lamp of a group o	of lamps connected in	electric circuit in serie	s was burnt.
	2	Looking at the Sun	n during its eclipse with	out special glasses.	
	ے.				
	1 G	ive reasons for the	e following :		
		. The filament of the	e electric lamp is made	_	
	2.		of the solution inside t ncentration of the soil :		plant is
	3.	. The crowbar is a le	ever of the first class.		
	4.		nt continues passing th ced by a piece of meta		c circuit if

[B] Look at the figure that represents the Sun Earth phenomenon of the solar eclipse then, answer the following: 1. When does this phenomenon happen? 2. The reigon number ① is known as and the type of eclipse is 3. The reigon number ② is known as and the type of eclipse is [A] Write the scientific term for the following: 1. A type of levers at which the force lies between the resistance and the (.....) fulcrum. (.....) 2. Two cells that surround the stoma in the plant leaf. 3. A type of telescopes in which the mirrors are used to collect light. (.....) [B] Correct the underlined parts in the following: 1. The nutcracker is a lever of the **first** class. 2. The human body is a good conductor of electricity because it contains (.....) gases. [C] A third class lever of 200 Newton force and its arm is 5 cm. affect on a resistance of 100 Newton, calculate the length of the resistance arm that makes the lever balanced. Kalyoubia Governorate The Educational Directorate Answer the following questions : [A] Choose the correct answer : 1. The force arm is sometimes equal to the resistance arm in class levers. c. third d. first and third b. second a. first 2. The glass tube of the fluorescent lamp contains inert gas. c. neon d. oxygen b. argon a. helium 3. In the plants, the stomata are widely spread on the b. xylem tissue. a. lower surface of the leaf.

d. stem.

c. root.

	4	is a bad conduc	ctor of electricity.		
		a. Rubber	b. Aluminium	c. Copper	d. Iron
	5	The lunar eclipse pheno	menon occurs		
		a. at the end of the luna	r month.		
		b. in the middle of the lu	nar month.		
		c. at the beginning of the	e lunar month.		
		d. in the first quarter of t	he lunar month.		
[B]	In	a second class lever, th	e effort force is 50 New	vton and the	length of the
		rce arm is 20 cm. If the			
	Ca	lculate the value of the	resistance. (write the n	natnematicai	relation).
2] [A]		ve reasons :			
	1.	The second class levers	always conserve effort		
	2	Root hair secretes a stic		***************************************	•••••••••••
	۷.				
	3.	The light bulbs are conn	ected in parallel in the h	nouse.	
	4.	Each stoma is surround	•		
[B]		hat is meant by ?			
	1.	Transpiration process.			
	2	Lever.			
	ے.				•••••
	3.	The electric shock.			
	4.	Selective permeability.	•		
	\ \ \	rite the scientific term			
Ca [A]		rite the scientific term		nd.	()
		The energy needed by p		Ju.	()
		It is a fixed point, where A way of connecting the		all the lamne	
•	<u>ن</u> .	when one of them burns	·	an the lattips	()



[B] The opposite figure represents an	3
astronomical phenomenon :	
1. What is the name of this phenomenon?	alin (
	0
2. Label the figure :	2
①	
②	
3	
[A] What happens when ?	
 The root of the plant whose white flower is sub- solution. 	merged in the red eosin
2. The electric lamp contains an atmospheric air f	
3. The Earth, the Moon and the Sun are on one s the middle.	traight line with the Moon in
4. The effort force is between the fulcrum and the	
[B] 1. Compare between solar eclipse and lunar of the reason of occurrence.	
② The time of occurrence.	
2. Mention only two precautions when dealing wi	th electricity.
3. What is the function of endodermis in the root	system ?

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Amouror	4ha	fallowing	augetione	-
Aliswer	uie	lollowilly	questions	•

Swer the following questions .	
[A] Complete the following statements :	
When the arm of the force is shorter than the arm of the resis is larger than and thus it doesn't save effort	
2. Root hairs wall is and they absorb water from the so	il by ·····
3 and are examples of materials that are election	ric conductors.
[B] What happens when ?	
The Moon, the Sun and the Earth are nearly on the straight little the Moon in the middle.	ne with
2. A man touches uncovered wire carrying current.	
[A] Correct the underlined word :	
1. Nutcracker is from the <u>first</u> class levers.	()
2. Plant stomata are surrounded by two woody cells.	()
Fires resulted from electricity are extinguished by <u>water</u>.	()
[B] Give reasons for the following :	
 The third class levers always don't conserve effort. 	
2. Annular lunar eclipse doesn't occur.	
[A] Write the scientific term :	
1. A tool used in converting the electric energy to light energy.	(
Fires occur as a result of the increase in the temperature of t machines.	he electric (
3. It occurs to the Moon when it completely enters the shadow a	area of the
Earth.	(
4. The fixed point of a rigid bar.	•
5. A part of the plant that penetrates through the soil particles a	(

arm of the resista	ngth of a third class leance is 15 cm. if the relate of the affecting for	sistance has a value rce.	of 300 Newton
			••••••
[A] Choose the corre	ect answer :		
 Which gas of the electric bulk 	ie following gases is for	und in the fluorescent	lamp but not i
a. Neon.	b. Argon.	c. Mercury vapo	our. d. Air.
a. the light inter b. the light inter	c lamp which is connectensity decreases. Insity increases.	ed in series with others	burns, ·····
c. all lamps turn		d. no correct an	swer.
a. photosynthes	er in form of water vapo sis.	b. transpiration.	noohility
·	unar eclipse is	d. selective perr	•
a. longer than	b. shorter than	c. equal to	d. twice
[B] Mention one fun 1. Hockey bat.	ction for each of the f	following :	
2. Mirrors in Hubbl	e telescope.		
3. The base of ligh	it bulb.	•••••••••••••••••••••••••••••••••••••••	
6 Menofia Gove	ornorate - T	El. · ID	
U MARIETA CONTRACTOR		e Educational Direct	orate
nswer the following qu	estions :		
[A] Complete the foll	owing statements by	suitable words :	
1. The partial solar	r eclipse is formed in the	earea of the	
2. The filament of a second se	the light bulb is made c	of and that is	because its
3. Root hair wall is	····· and it absorb	s water from the soil I	hv.

inner tube
inflict on as in
icity.
its:
ılcrum. (·······)
ues ()
minous ()
()
s water (······)
(b) (Earth) Moon
. car machines.
. Cai macimies.
f the leaf.

	3. The is con	nsidered from the f	rst class levers.	
	a. fish hook	b. seesaw	c. nutcracker	d. manual broom
	4. The duration of the	e solar eclipse does	not exceed	
	a. 5 minutes.		b. 6 minutes.	
	c. 7 seconds and	few minutes.	d. 7 minutes a	and few seconds.
	5 is one of	the electric conduc	tors.	
	a. Plastic	b. Wood	c. Rubber	d. Iron
	B] What would happer	n in each of the fo	llowing cases	?
	1. The cone shadow	of the Moon does r		
	2. The two metallic p		l in the base of the	light bulb.
	3. The force arm is lo	onger than the resis		
<u>.</u> 9	A] Correct the underli	ned words in each	of the following	statements :
	1. The crowbar is a s	second class lever		()
	2. Solar eclipse doe	es not require preca	utions, warnings o	or special
	devices to look at.			()
	3. The electric lamp	converts the electr	ic energy to the ki	<u>netic</u>
	energy.			()
	4. The photosynthe		n raising water and	
	the top of the plan			()
	In the <u>first</u> class leading fulcrum.	evers, the resistand	e is between the e	effort force and the
	[B] The force affecting of its arm is 10 cm. and the length of the 1. Is this lever balance	., if the value of th he resistance arm	e resistance equa	· · · · · ·
	2. If the lever is not be required for keeping			

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The Educational Directorate

Answer th	e following	questions:
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Answer the following questions .
[A] Complete the following statements :
1. Lunar eclipse occurs when comes between the Sun and
2. The fluorescent lamp consists of glass tube, and and
3. The glass bulb of the light bulb is filled with gas instead of
4. From examples of levers that are used to avoid dangers is
5. Lever is a rigid bar that rotates around a fixed point called and is affected by force and
[B] What happens when ?
1. The root hair of the plant secretes a sticky substance.
2. We look to the Sun with naked eye during the total solar eclipse.
The cone shadow doesn't reach Earth as the Moon comes in an orbit higher from Earth during its rotation around it.
[A] Write the scientific term :
Tiny holes that are widely spread on the lower surface of the plant leaves and the plant loses excess water through them.
An astronomical phenomenon occurs when part of the Moon enters the shadow area of Earth. (
3. Materials close the electric circuit as they allow the electric current to flow through them.
4. Levers that have the resistance between the fulcrum and the effort force.
()
5. It carries the lamp in upright position and connects the lamp to the electric circuit through two pieces of lead.
[B] A force of 500 Newton affects a first class lever and its arm equals 10 cm. If the resistance equals 200 Newton and the length of the resistance arm is 20 cm. Discover is the lever balanced or not and why?

3 [A] Ch	oose the correct answer :		
1.	The cell membrane of plant ro	oot hairs is characterized by	property.
	a. selective permeability	b. photosynthesis	c. transpiration
2.	The duration of the solar eclip	ose	
	a. may last for more than two	hours.	
	b. doesn't exceed seven min	utes and few seconds.	
	c. always occurs at night.		
3.	The lever conserves effort wh	nen	
	a. the arm of force is longer t	than the arm of resistance.	
	b. the arm of force is shorter	than the arm of resistance.	
	c. the arm of force equals the	e arm of resistance.	
4.	The operation of more than on	ne machine in the same socket	leads to
	a. electric shock.	b. increasing the electric l	
	c. all the previous.		
IBI G	ive reasons for each of the	following:	
	We can't see the Sun comple	etely during the total solar ecl	
2		e can be equal only in the first	
3	. The filament of the light bulb	is made of a coiled thin wire	of tungsten.
A CONTRACTOR OF THE PERSON OF	orrect the underlined words		
1	. Lunar eclipse phenomenon	occurs in the <u>end</u> of the lunar	
			()
		ne root hair by osmosis.	()
	. Second class levers always		()
4	. <u>Annular</u> solar eclipse occur	s in the semi-shaded area of	
			()
5	. Although crowbar is a third	class lever, it conserves effor	t. (······)

[B] Look at the opposite two figures (a & b), then answer in spaces below each one as required.

Figure (a)	Figure (b)
(1) (2) (3)	Lamp (1) Lamp (2) Lamp (3)
	·

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Answer the following questions:

[A] Complete the following statements :

- 1. From examples of the first class levers are and and
- 2. The harms resulting from an electric shock depend on and and
- 3. The root hair secretes substance that helps in root through the soil particles.
- 4. If we are in a place where the Moon shadow fall on the Earth thus we can see

[B] What happens if?

- 1. A light bulb connected in series turned off.
- 2. The whole Moon enters the semi-shaded area of the Earth.

	We not disconnect the electric generate heat after using.	current from the electric machines that
2 [A	A] Write the scientific term for each	ch of the following :
	1. Small holes found in the plant	leaves. ()
	2. An inert gas fill the bulb vacuu	m. (······)
	3. A phenomena occurs when the Sun and they are all on one str	e Earth comes between the Moon and the raight line.
[B	B] Give reasons for the following	:
	1. Water isn't used to put out the	electric fire.
	2. The third class levers always of	don't conserve effort.
	3. The filament of the light bulb is	s made of tungsten.
3 [A] Choose the correct answer :	
	1. All of the following are third cla	ss levers except
	a. wheelbarrow.	b. fish hook.
	c. manual broom.	d. sweet holder.
	2. When we connect an electric be the lighting of these bulbs will	ulb in parallel with another electric bulbs,
	a. decrease.	b. increase.
	c. turn off.	d. remain constant.
	3. The bio-process where the plants is	nt loses excess water in the form of vapour
	a. respiration.	b. photosynthesis.
	c. selective permeability.	d. transpiration.
	4. From the importance of the lev	ers
	a. decreasing force.	b. increasing distance.
	c. decreasing speed.	d. not accuracy in performance

[B]	The force affecting on a second class lever equals 200 Newton and the length of its arm is 50 cm. and a resistance with a value of 1000 Newton, calculate the value of the arm of resistance?		
[A]	Put (✓) or (✗) in front of each statement :		
	1. The fluorescent lamp contains one filament of tungsten.	()
	2. When we are in the semi-shadow area of the Moon we watch the annular eclipse.	()
	3. If the force of resistance is between the force of effort and fulcrum the will be from the second class levers.	e lev	er)
	4. The salt concentration inside root hair vacuole is larger than salt concentration inside the soil.	())
	5. If the arm of force is longer than the arm of resistance then the lever conserves the effort.	()
	6. We can look directly at the Sun during solar eclipse and our eyes will harm.	not ()
[B]	Write the place and the function of the guard cells :		
	The place :		••••
9 (Ismailia Governorate The Educational Directorate		
_	er the following questions :		
[A]	Complete the following statements with suitable words:		
	1. The lever is a bar that rotates around a fixed point called		
	2. The filament of the light bulb is made of because its is high.	·· po	ınt
	3. Metallic materials are considered as to electricity, while glas rubber are materials to electricity.	s an	d
	4. The lunar ······is formed when the ·····is located between the and the Moon.	ne S	un
	5. Root hair secretes substance that helps in root throsoil particles.	ough	İ



[B] V	What happens if ? :		
1	I. Touching a naked wire where an electric current passes through, whi touching the ground.	le 	
2	2. The force arm and the resistance arm in a lever are equal.		
3	3. The direct observation of a person to the solar eclipse by the naked e	∍ye. 	
2 [A] I	Put (√) or (≭) and correct what is wrong :		
	 In the second class lever the resistance is between the force and the fulcrum. 	()
	2. In the electric lamp, the electric energy is converted into kinetic energ	д у.)
;	3. Plant loses water in the form of water vapour in photosynthesis process.	()
•	4. The fish hook is a first class lever.	()
[C]	Calculate the length of the resistance arm, that regains the balance the lever, if you know that the length of the force arm is 2 cm., the force is 8 N and the resistance is 1 N. What is the function of each of the following: 1. The insulating material in electric cables.	effo	rt
	2. The lever in the hockey bat.		
 (A)	Write the scientific term for each of the following :		
E. J	A composition of cells which regulates water crossing into a tissue called xylem.)
	2. An area where the whole Moon is located, is not considered an eclipse.		····)
	3. A method in which the electric bulbs are connected in branching routes. (····)

[B] Look at the following figure, then	/ / -
	1. Write the labels :	
	①	3+
	②	
	③	
	2. What is the function of part number	4)
[C] Give reasons for each of the follo	wing :
	,	surrounding each stoma in the plant leaf.
	2. The swelling of the light bulb is fil	ed with argon gas.
4) [A	Choose the correct answer :	
	1. When an electric lamp is burned v	when it is connected in series with other
	electric lamps in an electric circuit	, the other lamps ······
	a. decrease their light intensity.	b. increase their light intensity.
	c. turn off.	d. explode.
	2. Which of the following is from the	third class levers?
	a. The sweet holder.	b. The wheelbarrow.
	c. The seesaw.	d. The scissors.
	3. The plant gets the mineral salts the	rough ·····
	a. osmosis.	b. selective permeability.
	c. transpiration.	d. no correct answer.
	4. The annular solar eclipse takes pl	ace when the Moon comes in an orbit
	a. higher than b. lower tha	n c. average to d. parallel to
[B]	Compare between the solar eclips	se and the lunar eclipse in terms of the
	time of their occurrence:	
	Point of comparison Sola	r eclipse Lunar eclipse

Time of occurrence

[C] Correct the underlined words in the following	owing statements	s n
1. Water is not used to put out the regular	fires.	()
2. Stomata are widely spread on the uppe	r surface of the pla	nt leaves.
		()
3. The lunar eclipse extends for more than	i two <u>days</u> .	()
10 Port Said Governorate The	Educational Direc	itorate
nswer the following questions :		
[A] Complete the following statements :		
 The distance between the force and the force the distance between the fulcrum and the 		
whole Moon the Earth.	enters the shadow	(umbra) area of
The fluorescent lamp consists of a glas and the inner tube surface is c		
4. The scissors are example of the	···· class levers.	
5solar eclipse occurs when the the Earth.	Moon comes in an	orbit higher from
[B] What is meant by ?		
Selective permeability.		
[A] Write the scientific term for each of the	following :	
 One of the dangers of electricity that re passing through the human body. 	sults from an electr	ric current
2. Plant root cells which regulate water cro	ssing into xylem tiss	sue. ()
An area that appears between the lighte we can see a part of the light source if w		
[B] A third class lever, the length of its for of its resistance arm is 65 cm., if the at 200 Newton, calculate the value of the	ffecting resistance	and the length has a value of

2	. There is no osmosis fea	•	
[A] C	Choose the correct ans	wer:	
1	. All of the following are	examples of third class le	vers except
	a. seesaw.	b. manual broom.	c. sweet holder.
2	. The duration of the sola eclipse.	ar eclipse is the o	duration of the lunar
	a. equal to	b. more than	c. less than
3	. Thein plants i	s responsible for the phot	osynthesis process.
	a. root system	b. shoot system	
	c. all the previous ansv	vers are correct	
4	. The solar eclipse occur	s when ·····	
	a. the Earth is between	the Moon and the Sun.	
	b. the Moon is betweer	n the Earth and the Sun.	
	c. the Sun is between t	the Earth and the Moon.	
3] G	ive reasons for each o	f the following :	
1	. Lunar eclipse does not	require precautions or sp	ecial devices to look a
2	. The wheelbarrow is a le	ever that always conserve	es effort.
] C	ompare between :		
	Points of comparison	Electric conductors	Electric insulator
	Definition :		
├		·	

2. The soil secretes a sticky substance that helps in soil particles.	root penetration through
3. The fulcrum is between the force and the resistant	ce in third class levers.
5. The falcium is between the force and the resistant	()
	(
[B] Mention one function or one use for each of the f	
1. Stoma :	
2. Crowbar :	
[C] Examine the opposite	
figure, and answer the questions :	
1. Name the way of connecting	
electric lamps in :	
a	
(b)	
2. The way used to connect electric lamps in	
houses is because	
	(b)
11 Damietta Governorate The Education Answer the following questions:	nal Directorate
1 [A] Complete the following statements :	
1. First class levers conserve effort when the	arm is longer than the
arm.	watti is longer than the
	ama and alastria
The simple electric circuit consists of an electric la switch.	amp, and electric
The transmission of water from the soil to the vacours by the feature, while mineral salts soil by	
4. When a part of the Moon enters the Earth's umbroccurs, while phenomenon occurs when Moon does not reach the Earth's surface.	

[D]	The function of lev	ver in the tweezers and	nutcracker.	
[A]	Write the scientif	ic term of each of the	following :	
	Losing of excess through stomata	s water in the form of ware.	ater vapour from th	ne plant leaves (
	A rigid bar that r force and resista	otates around a fixed po ance.	oint (fulcrum) and i	s affected by (····································
	3. A way in which th	ne light bulbs are connec	ted one after the ot	her. (
	4. Materials which	allow electric current to p	pass through.	(
		electric fires with water.		
		on of the solution decre	ases inside the va	cuole of the roo
[A]	3. The concentration hair. Choose the corre	on of the solution decre		
[A]	3. The concentration hair. Choose the correct of the correct hair.	on of the solution decre	sistance arm in	class lever
[A]	3. The concentration hair. Choose the correct of t	on of the solution decressors ect answer: metimes equal to the res b. second	sistance arm in c. third	class lever
[A]	3. The concentration hair. Choose the correct of t	on of the solution decre- ect answer : metimes equal to the res b. second lamp contains argon ga	sistance arm in c. third as and a little of	class lever
[A]	3. The concentration hair. Choose the correct of t	on of the solution decre- ect answer: metimes equal to the res b. second lamp contains argon ga	c. third c. oxygen.	d. first and thi
[A]	3. The concentration hair. Choose the correct of t	ect answer: netimes equal to the res b. second lamp contains argon ga b. mercury.	c. third c. oxygen. the plant by	d. first and thi
[A]	3. The concentration hair. Choose the correct of t	on of the solution decre- ect answer: metimes equal to the res b. second lamp contains argon ga	c. third c. oxygen. the plant by	d. chlorine.
[A]	3. The concentration hair. Choose the correct of t	ect answer: netimes equal to the res b. second lamp contains argon ga b. mercury. olved substances rise in b. endodermis.	c. third c. oxygen. the plant by	d. chlorine.
[A]	3. The concentration hair. Choose the correct of t	on of the solution decreant contains argon gas b. mercury. Solved substances rise in b. endodermis. On of the lunar eclipse o	c. third as and a little of c. oxygen. the plant by c. epidermis. ccurs on the c. 25 th	d. chlorine. d. xylem. day of the

[C] From the following table, find the length of resistance arm (X):

Force (Newton)	Force arm (cm.)	Resistance (Newton)	Resistance arm (cm.)
50	20	200	(X)

4) [A]	Give reasons for: 1. The second class levers save effort usually.
	2. In houses, electric lamps are connected in parallel.
	3. In plants, the root hair secretes a sticky substance.
[B]	Correct the underlined words :
	1. In the electric lamp, the electric energy is converted into mechanical energy. ()
	2. Root hairs extend from the cells of endodermis layer. (
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Answe	er the following questions :
[A]	Complete the following statements :
	1. The fluorescent lamps contain gas.
	2. The are widely spread on the lower surface of the leaves.
	3. The electric bulbs are connected in in the houses.
	4. The seesaw is considered a class lever.
	5. The is the result of an electric current passing through the human body.
[B]	Look at the opposite diagram, then answer the following questions :
	1. Write the names of parts ① & ②.

2. Mention the function of part 3.

resistance.	ound the fulcrum, and is a	()
The materials that do not them.	allow the flow of electrici	ty through ()
3. Plant loses excess water	in the form of water vapou	ır. ()
Fires occur due to the inci machines.	rease in the temperature of	of the electric (·······)
Occurs when a part of the of the Earth.	Moon enters the shadow	area ()
[B] What happens in the follo	wing cases ?	
1. When an electric lamp wh	nich is connected in paral	lel with others burns.
2. When the Earth, the Moo the Moon in the middle.	n and the Sun are nearly	on one straight line with
[A] Choose the correct answe		
1. The lunar eclipse phenon		
a. at the end	b. in the middle	c. at the beginning
2. Tungsten is preferred to under a its low melting point.c. its high melting point.		
3. Levers that always conse	rve the effort	
a. first class levers.	b. second class levers.	c. third class levers.
 Root hair absorbs water to a. swallowing. 	b. osmosis.	c. guard cells.
5. In the levers of first class		or gaara conc.
a. the force is between the		rum.
b. the resistance is between		
c. the fulcrum is between	ı	
	he following :	÷
[B] Give reasons for each of t	iic ionowing .	

4) [A] Put (√) in front of correct st	atements and sign () ir	front of false stateme	ents :
	1. The two phenomena of lu	unar and solar eclipses	are repeated regularly	/ and
	can be predicted.			()
	2. The root hair is recognize	ed with its thick membra	ne.	()
	3. Fires resulted from electr	ricity are extinguished by	/ water.	()
	4. Levers were described by	y "Archimedes" the Gree	ek scientist.	()
	5. The filament of the fluore	scent lamp is made of a	lluminium.	()
[B] A third class lever with a fo	orce arm of length 5 cm	., and the length of th	ne
	arm of the resistance is 15	cm. If the resistance ha	as a value of 300 Nev	vton,
	calculate the value of the a	iffecting force.		
			•••••	
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Ancur	er the following questions	•		
STEEL STATE OF THE				
LA LA] Choose the correct answ			
	1. There are many holes "s	· · · · · · · · · · · · · · · · · · ·	on	
	a. the lower surface of the	•		
	b. the plant stem.	c. the paint root.		
	2. ····is a second class	ss lever.		
	a. The sweet holder	b. The wheelbarrow	c. The crowbar	
	3. Which of the following ga	ases is found in the fluo	rescent lamp but not i	n the
	electric lamp ? ·····			
	a. Neon.	b. Argon.	c. Mercury vapour.	
	4. All the following substan	ces are good electric co	nductors except	
	a. aluminium.	b. copper.	c. rubber.	
	5 occurs to the S	un when the Moon come	es in an orbit higher fi	rom
	the Earth.			
	a Partial lunar eclipse	h Total lunar eclinse	c. Annular eclipse	

	Types of injuries resulting fro	-	* 1
[A]	Write the scientific term fo	r each of the following	statements :
	1. The losing of excess wate	r in the form of water vap	_ -
	leaves.		(
	2. Two cells surround the sto	•	(
	3. It occurs when the whole N the Earth.	noon enters the shadow a	(
	4. It is the type of levers that	always doesn't converse e	effort. (······
	5. It consists of a battery, a la battery to the lamp.	mp, wires and electric swi	itch to connect the
[A]	Give reasons for :		
	1. The second class levers of	onserve effort.	
	2. Root hair secretes a stick	y substance.	
	3. Water cannot be used to	out out the fire resulting f	om electricity.
	4. We should not look direct	y at the Sun with the nak	ed eye.
[B]	Complete the following tak	ole :	
	Points of comparison	Connecting in series	Connecting in paralle
	Light intensity of the lamp :		
	Removing one of the lamps from the connection :		
	What happens in the follow		

4 [A] Complete :	
①	
②	() () () ()
③ ····································	
[B] Correct the underlined word :	4—
1. The sweet holder is a lever from the first class.	()
The salt concentration inside the root hair vacuole is	,
concentration of soil solution.	(·······)
3. In the second class lever the fulcrum is between fo	rce and resistance.
	()
4. The human body is a good conductor of electricity a	as it contains gases .
	()
	·405
Fayoum Governorate The Educations	al Directorate
Answer the following questions :	
1 [A] Complete the following statements :	
There are holes called widely spread on the plant leaves used in making process.	e lower surface of the
2. When the arm of force is shorter than the arm of res	
3. In the solar eclipse, is found between the S	Sun and
[B] Mention one function for each of the following :	
1. The two guard cells.	
O. Elvarage and laws	
2. Fluorescent lamp.	

2 [A]	Choose the correct at 1. Which of the follow		fluorescent lamp but not in the		
	light bulb ? ·····		·		
	a. Neon.	b. Argon.	c. Mercury vapour.		
	2. Which of the follow fulcrum?	ing levers has the force b	etween the resistance and		
	a. Nutcracker.	b. Scissors.	c. Sweet holder.		
	3. Root hair wall is \cdots				
	a. thick.	b. thin.	c. average.		
	4. The filament of the	light bulb is made of			
	a. iron.	b. copper.	c. tungsten.		
	We should not look eclipse.	directly at the Sun by th	e naked eye during a solar		
	2. The age of a root h	nair does not exceed a fe	w days.		
3 [A]	Write the scientific t	erm for the following :			
	1. A phenomenon occ the Earth.	curs when part of the Mod	on enters the shadow area of ()		
	2. Levers in which the	e resistance is found betw			
	and fulcrum.		()		
	3. The way where the bulbs are connected in branching routes and the lighting of the lamps is not affected by increasing in their				
	number.		()		
	4. One of the dangers the body.	of electricity which cause	es the damage of the tissues of ()		
[B]	What would happen	in the following cases	?		
	1. The electric fire is	put out by water.			
		of the Moon does not rea			

4. Root hairs extend from layer of the

2 Write the scientific term for the following:

- 1. Levers that have the force of effort between the force of resistance and the fulcrum.
- 2. Holes widely spread on the lower surface of the plant leaves. (.....

3.	Astronomical phenome area of the Earth.	enon occurs when the wh	nole Moon enters	s the shadow ()
	Result because of pass the human body.	sing of an electric current	through	()
3 [A]	Choose the correct	answer :		
	1. From materials that	t are electricity conductor	's is	
	a. wood.	b. copper.	c. glass.	
	2. Which of the follow	ing is found in the light bu	ulb ?	
	a. Mercury.	b. Neon gas.	c. Tungste	en.
[B]	Mention one function	n for :		
	1. Guard cells in plant			
	2. Mirrors in Hubble te	elescope.		
	considered lunar ed	oon enters the semi-shad clipse. used to put out the fire r		
[B]	The figure represents 1. What is the type of		Electronics (F) Resistrations	anse.
	2. What is the importa	nce of this lever? Why?		Fülcrum (G)
16 (El-Minia Governo	Service Transport in	ucational Directo	orate
	Complete the following			
e v		class levers and	fishing tool is fro	om



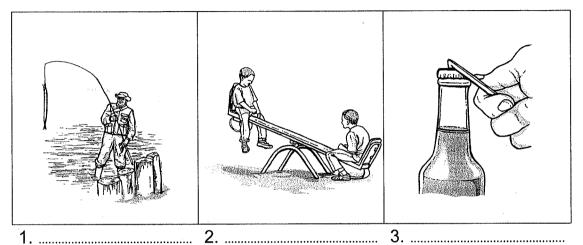
	2. The filament of the light high	bulb is made of 1	hat is because it has
	3. ·····is exerted by a	person to equilibrate the	resistance force.
[B]	What are the types of tele	escopes ?	
[A]	Write the scientific term t	for the following statem	ents :
	A rigid bar that rotates a affected by force and re-		the fulcrum, and is
	2. It consists of a battery, a		
	3. A glass tube is empty of	air and contains an inert	gas and a little mercury.
	4. They are tiny holes that	widely spread on the low	•
	leaves.	wadiy aprodu dir tiro low	(
[B]	What happens if? 1. The light bulbs in the ho	use are connected in seri	es.
	2. You place the electric he	eater too close to furniture	and rugs.
	3. Put eosin solution in a to	est tube during the test of root to the other parts of	
[A]	Put (√) or (≭) in front o	f the following statemer	its:
	1. First class levers have t		
	resistance force.		(
	2. Wood material is a good		(
	3. Water is not used to put		olo of the root bair is
	4. The concentration of the higher than that of the s		(
[B	3] Compare between the s	olar eclipse and the lun	ar eclipse :
	Points of comparison	Solar eclipse	Lunar eclipse
	1. How does it occur?		
	2. Types.		

[A] Give reasons for the following:1. During the start of total lunar eclipse, the colour of the Mod	on tends to be red.
2. Special glasses must be used to look at the solar eclipse	
3. The age of a root hair does not exceed a few days.	
[B] A third class lever, where the effort force = 200 Newton, 5 cm. and the resistance force = 100 Newton. Calculate the resistance arm.	the length the of
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Answer the following questions :	•
[A] Complete the following statements :	
1. The lever is a rigid bar that rotates around a fixed point c	alled
2. The simple electric circuit consists of and	
Metallic materials are considered from the electric rubber are considered from the electric	_
4. Lunar eclipse phenomenon occurs whenis located andon one straight line.	d between
[B] Calculate the length of the resistance arm that regains to of the lever. If you know that the length of the force arm hanging force is 8 Newton and the resistance is 4 Newton	is 2 cm, the on.
	<i>p</i>
[A] Write the suitable scientific term for the following state	ments :
1. A tool used to convert electric energy to light energy.	()
2. A part of the plant that penetrates through the soil particle	es and fixes it.
	()
 One of the dangers of the electricity is causing the dama of the human body. 	ge of the tissues

4. It occurs when a part of the	ne Moon enters the s	shadow area of the Earth.
		/

5. It is a way of connecting the electric lamps, in which the light intensity decreases with the increase in their number.

[B] Classify the following machines according to their types :



ΓΛΊ	Choose	tho	correct	anewat	
AL	CHOOSE	uie	conect	aliswei	

the human body.

1.	The root hair secr	etes a ······subst	ance which helps it	n absorbing water.
	a. solid	b. sticky	c. flexible	d. smooth
2.	All the following m	naterials allow the flow	of the electric curre	ent except
	a. copper.	b. iron.	c. rubber.	d. aluminium.
3.	Force arm is som	netimes equal to resis	tance arm in	····· class levers.
	a. first	b. second	c. third	d. first and third
4.	The phenomenor lunar month.	n of the lunar eclipse	occurs on the	······ day of the
	a. 10 th	b. 15 th	c. 25 th	d. 28 th
Co	orrect the underli	ined words in the fo	llowing sentence	s:
1.	The filament of th	ne light bulb is made	of carbon .	(········)
2.	Osmosis is a bid	ological process in wh	nich the plant loses	excess water in
	the form of water	vapour.		()
3.	Partial solar eclip	ose occurs when the	Moon's cone shad	ow (umbra) does
	not reach the Ear	rth's surface.		()
Λ	The electric fire	occurs due to the na	ssage of the electr	ic current through

[B]

4 [A] Notice the following figure then write the la	bels on the figure :
· ① ··································	4
[B] Give reasons for the following:	-2
 You must not look directly at the Sun during solar eclipse. 	3
2. The age of a root hair does not exceed a few	days.
[C] What happens in each case of the following	յ ?
The absence of guard cells which surround to the surround	the stomata in the plant leaf.
2. The electric lamp contains atmospheric air.	
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Answer the following questions :	
Answer the following questions : [A] Complete the following statements :	
Answer the following questions: [A] Complete the following statements: 1. In the solar eclipseis found between	
Answer the following questions: [A] Complete the following statements: 1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 2.	ween and
Answer the following questions: 1 [A] Complete the following statements: 1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The in plant is surrounded by two general terms.	weenandguard cells.
Answer the following questions: [A] Complete the following statements: 1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The in plant is surrounded by two gets. [B] A force of 50 Newton affected a lever of the	weenand guard cells. 2 nd class its force arm 20 cm.
Answer the following questions: 1 [A] Complete the following statements: 1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The	ween and guard cells. 2 nd class its force arm 20 cm. of the resistance = 5 cm.
Answer the following questions: [A] Complete the following statements: 1. In the solar eclipse is found between 2. In first class levers, the fulcrum is found between 3. The in plant is surrounded by two gets. [B] A force of 50 Newton affected a lever of the	ween and guard cells. 2 nd class its force arm 20 cm. of the resistance = 5 cm.
Answer the following questions: [A] Complete the following statements: 1. In the solar eclipse	ween and quard cells. 2 nd class its force arm 20 cm. of the resistance = 5 cm.
Answer the following questions: 1 [A] Complete the following statements: 1. In the solar eclipse	ween and quard cells. 2 nd class its force arm 20 cm. of the resistance = 5 cm.
Answer the following questions: 1 [A] Complete the following statements: 1. In the solar eclipse	ween and quard cells. 2 nd class its force arm 20 cm. of the resistance = 5 cm. ements: e of the electric current to the ()

[B] Choose from column (B) that suits column (A):

1. Light bulb	a. is in series.	
2. Connecting electric lamps in	b. is in parallel.	
the house	c. changes electric ener	gy to light energy.
3. The filament of the light bulb	d. made of nichrome wir	e.
	e. made of tungsten wire	е.
1 2		3
Write the scientific term of the t	following statements :	
1. Losing of excess water in the f	orm of water vapour from	_
other green parts.		()
2. Type of levers doesn't save eff	ort.	()
3. The substances that allow the	electric current to pass th	rough them.
		()
		C (1
4. It occurs when a part of the Mo	oon enters the shadow ar	ea of the Earth.
4. It occurs when a part of the MoMention one function for each of1. Fluorescent lamps.		
Mention one function for each o		ea of the Earth. ()
Mention one function for each of the following states		
Mention one function for each of the following states	of the following :	
Mention one function for each of the following of the fol	of the following :	
Mention one function for each of the following of the correct answer from the following of the correct answer from the following of the correct answer from the correct answer	of the following :	
Mention one function for each of the following of the correct answer from the following the plants, the walls of root	of the following: m the following: hairs are b. thin.	c. intermediate
Mention one function for each of the following of the correct answer from a thick.	of the following: m the following: hairs are b. thin.	c. intermediate
Mention one function for each of a second of the correct answer from a second of the correct answer fr	of the following: m the following: hairs are b. thin. ectric conducting substar b. plastic.	c. intermediate
Mention one function for each of the following of the correct answer from a thick. 2. From the examples of good elements of the correct answer from the examples of good elements of the correct answer from the examples of good elements of good	of the following: m the following: hairs are b. thin. ectric conducting substar b. plastic.	c. intermediate
Mention one function for each of a. Fluorescent lamps. 2. Levers. Choose the correct answer from the plants, the walls of root a. thick. 2. From the examples of good eleman wood 3	of the following: m the following: hairs are b. thin. ectric conducting substar b. plastic. e third class levers. b. Seesaw	c. intermediatences isc. copper.
Mention one function for each of the following of the correct answer from the plants, the walls of root at thick. 2. From the examples of good el at wood 3	of the following: m the following: hairs are b. thin. ectric conducting substar b. plastic. e third class levers. b. Seesaw	c. intermediatences isc. copper.
Mention one function for each of a. Fluorescent lamps. 2. Levers. Choose the correct answer from the plants, the walls of root a. thick. 2. From the examples of good eleman wood 3	of the following: m the following: hairs are b. thin. ectric conducting substar b. plastic. e third class levers. b. Seesaw I to resistance arm in b. second	c. intermediate nces is c. copper. c. Nutcracker class levers. c. third

[B] Give reasons fo	ass levers save eff	fort.
2. Decorative lan	nps are connected	in parallel not in series.
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Answer the following q	uestions :	
Complete the follow	ving statements :	
1 and	····· are two ways f	for connecting electricity.
	s of levers, increas	ing as in crowbar and increasing
3. Levers were first dinvented by the so		eientist while the light bulb was
[A] Choose the corr	ect answer from	the following :
1. The filament o	f light bulbs is mad	le of ·····
a. iron.	b. tungsten.	c. carbon.
2is a go	ood conductor of e	lectricity.
a. Wood	b. Plastic	c. Copper
3. The duration o	f the solar eclipse	does not exceed
a. 5 minutes.	b. 7 minutes.	c. 7 minutes and few seconds.
·		ewton, and the length of its force arm is ance force of 20 Newton.
1. Calculate the le	ength of the arm o	·
2. Does this lever	conserve effort or	not ? Why ?
••••••		

3 [A] Give reasons for each of the following:	
The type of eclipse changes by the movement of the Moon in front	of the Sun.
2. Water is not used to put out electric fires.	
[B] Put (\checkmark) or (x) in front of the following statements :	
1. The electric overload which heats up the wire causing electric fir	e. ()
Fluorescent lamps are called neon lamps, because they contain gas called neon.	an inert
3. The partial solar eclipse is formed when the cone shadow does the Earth.	not reach
 The fulcrum in scissors lies between the effort force and the res force. 	istance ()
The simple electric circuit consists of battery, electric lamp and i connect the battery to the lamp.	nsulator to ()
[A] Write the scientific term of the following statements :	
One of the dangers of electricity that occurs as a result of the patthe electric current through the human body.	assage of ······)
2. The type of levers that always doesn't save effort. (······)
3. A device used to convert electric energy into light energy. ()
[B] Identify the astronomical phenomenon shown in the following then answer the following questions:	figure,
1. What is the name of this phenomenon?	3
2. The duration of this phenomenon may last for more than	1 2
3. Label the figure: ①	

Aswan Governorate

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Answer	the	following	questions	:
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nswer	the following ques	tions :	
] [A] (Complete the follow	ing statements :	
	1. The nutcracker is a example of the	•	levers, while the scissors are
	2 and	····· are some of the dange	rs of direct electricity.
	3. Lunar eclipse pherand the M	nomenon occurs when loon.	······ is located between
	4. The root hair secre through soil particl	etessubstance to es.	help penetrating the root
	5. The filament of the	e light bulb is made of	
[B] \	What happens in ea	ch case of the following.	?
	•	he electric lamp is filled wi	
		uard cells which surround th	
2 [A]	Choose the correct	answer from the following	ıg:
	1. From the example	s of good electric conducti	ng substances is
	a. iron.	b. plastic.	c. wood.
	2. Transpiration is ····		
	a. losing of excess	s water in the form of water	vapour from plant.
	b. transmission of from high to low		semi-permeable membrane
	c. the absorption of	of water through the walls of	of the root of plant.
	3. Which statement i	s correct ?	
	a. Solar eclipse ta	kes a time equals that of lu	ınar eclipse.
	b. Solar eclipse ta	kes a time more than that	of lunar eclipse.
	c. Solar eclipse ta	kes a time less than that o	f lunar eclipse.
	4. On connecting the bulbs	e electric lamp in series wit	h others, the lighting of the
	a. unchanged.	b. decreases.	c. increases.

American	B] The force arm length of a third class lever is 5 cm, and the length of the resistance is 15 cm. If the resistance has a value of 300 Ne Calculate the value of the affecting force.	
	······································	
3 [A] Put (√) or (≭) in front of the following statements :	
	1. Fires resulted from electricity are extinguished by water.	()
	2. Stomata are widely spread on the upper surface of the leaf.	()
	3. Looking directly at the solar eclipse is harmful to the eye.	()
	4. Fluorescent lamps are called neon lamps because it contains in	ert gas
	called neon gas.	()
[]	B] Give reasons for the following :	
	1. The third class levers don't save effort.	
	2. Avoid operating more than one machine in the same socket.	
4	A] Write the scientific term of the following statements :	
	1. It occurs when a part of the Moon enters the shadow area of the	Earth.
	(·	·····)
	2. Materials that don't allow the flow of electricity through them. (·····)
	3. The fixed point of a rigid bar on which the bar rotates. (······)
	4. Way used to connect electric lamps in branching routes. (··	·····)
	B] Label the diagram :	
	①	-() -0
	2	
	3	
		2

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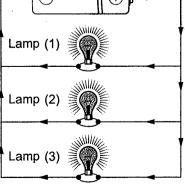
The Educational Directorate

Answer the following questions	following questions :	he	Answer
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Answer th	ne following question	s:	
1 [A] Ch	oose the correct ans	wer from the following	:
1.	Root hair wall is	••••	
	a. thick.	b. solid.	c. thin.
2.	The filament is a coiled	d thin wire from	
	a. copper.	b. tungsten .	c. mercury.
3.	The sweet holder is a	lever from thec	lass.
	a. first	b. second	c. third
4.	is from the ele	ectric insulators.	
	a. Nail	b. Coin	c. Eraser
[B] Co	mpare between the fo	ollowing :	
	Point of Comparison	Total lunar eclipse	Partial lunar eclipse
	To the Moon		

2 [A	Write the scientific term	n of the following st	tatements :	44
	1. The most famous teles	scope that revolves a	around the Earth.	(
	2. The losing of water fro	m small holes on the	e surface of plant	leaves.
	3. It is formed in the shad can't see the Sun com		n on the Earth an	d in which we
	4. Levers that have the fu	ulcrum between force	e and resistance.	(
[B]	In the electric circuit who 1. The kind of connecting	•	ou:	(H)

Lamp (1) 2. What happens when we unscrew one bulb or it burns out? Lamp (2) 3. What happens to the lighting of the bulbs Lamp (3) when adding fourth bulb?



[A] Complete the following sentences :	
 If the whole Moon enters in the area, its light turn without being eclipsed. 	ns to be faint
2. The fluorescent lamp contains inert gas.	
3. In the third class levers the effort force is found between	and
[B] Give reasons for each of the following :	
1. The second class levers conserve the effort.	
2. The age of the root capillary doesn't exceed a few days.	
[A] Put (√) or (x) in front of the following statements :	
1. Putting out the electric fires with water.	()
Special glasses are used to observe the solar eclipse.	()
3. The passage of the electric current through the human b	ody may result in
an electric shock.	(
4. Levers were first described in the year 260 B.C. by the scient	entist Galileo. (
5. The time of solar eclipse does not last more than 7 minu	tes and few
seconds.	(
[B] In this time table :	
Force Resistance Arm of force	Arm of resistance

Force (Newton)	Resistance (Newton)	Arm of force (cm)	Arm of resistance (cm)
4	10	5	(Z)
9	6	(Y)	3
(X)	7	2	4

Find the value of : (X , Y , Z)	

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Answer	the	following	questions:
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] [A]			
	Complete the following sentences :		
	1. The manual broom is from class levers.		
	2. The root hair has aage.		
	3. In the solar eclipseis found between the Sun and		
	4. The filament of the light bulb is made of and that is becaus a high	e it ha	S
	In class levers the resistance is found between the force a fulcrum.	nd the	
[B]	What happens in each case of the following ?		
	1. If there are no guard cells surround the stomata.		
	2. A part of the Moon enters the shadow area of the Earth.		
2 [A	Put (√) or (x) in front of the following statements and correct the wrong one: 1. The light bulb is filled with oxygen gas.	ie ()
	The electric shock is the result of an electric current passing throug human body.	h the)
	human body. 3. The soil secretes a sticky substance that helps in root penetration t soil particles.)))
[B]	human body. 3. The soil secretes a sticky substance that helps in root penetration t)))
-	human body. 3. The soil secretes a sticky substance that helps in root penetration t soil particles. Give reasons for the following:	hrough ()

3 [A] Choose the correct ans	wer from the following	s a
1. The root hair is charac	cterized with wall	•
a. thick	b. thin	c. intermediate
2. From the first class lev	ers is ·····	
a nutcracker.	b. sweet holder.	c. seesaw.
3is found in fluo	orescent lamp and not for	und in electric lamp.
a. Neon	b. Argon	c. Mercury vapour
4. Thesolar eclipthe Earth.	pse is formed in the shad	ow area of the Moon on
a. total	b. partial	c. annular
of resistance arm = 80 cr		
₹ 		
		Electric insulators
[C] Compare between each o	of the following :	
[C] Compare between each of Points of comparison	of the following : Electric conductors	Electric insulators
[C] Compare between each of Points of comparison Definition:	of the following : Electric conductors	Electric insulators
[C] Compare between each of Points of comparison Definition: Example:	of the following : Electric conductors of the following statement	Electric insulators
[C] Compare between each of Points of comparison Definition: Example: [A] Write the scientific term 1. Plant loses excess water	of the following : Electric conductors of the following statemer in the from of water var	Electric insulators
[C] Compare between each of Points of comparison Definition: Example: [A] Write the scientific term 1. Plant loses excess wate 2. The fixed point of a rigid	of the following: Electric conductors of the following statemer in the from of water varied bar on which the bar rot	Electric insulators ents:
[C] Compare between each of Points of comparison Definition: Example: [A] Write the scientific term 1. Plant loses excess wate 2. The fixed point of a rigion 3. Occurs when the whole Management of the scientific term 4. The way that the electric	of the following: Electric conductors of the following statement of the from of water varied bar on which the bar rot which the shadow are clamps are connected are	Electric insulators ents: our. (
[C] Compare between each of Points of comparison Definition: Example: [A] Write the scientific term 1. Plant loses excess wate 2. The fixed point of a rigion 3. Occurs when the whole Management of the scientific term 4. The way that the electric	of the following: Electric conductors of the following statement of the from of water varied bar on which the bar rot which the shadow are clamps are connected are ease in the number of large	ents: cour. () rea of Earth. () and the intensity of the light

[B] Choose from column (B) that suits column (A) :

(A)	(B)
1. Always save effort	a. first class levers.
2. Always don't save effort3. Sometimes save effort	b. second class levers.c. third class levers.d. force.
1 2	2 3

/							
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The Educational Directorate

Answer t	he	following	questions :	
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1	[A] Write the scientific term for the following statements :	
	1. The fixed point of a rigid bar.	(
	A tool used to convert the electric energy to light energy.	(
	3. Materials not allowing the electric current passing through it.	(
	4. It occurs when a part of the Moon enters the shadow area of	the Earth.
		(
	5. Biological process through which plants lose excess water in	the form of
	vapour.	(
	The simple machines act as effort saving.	(
	[B] Give reasons for the following :	
	1. You should not look directly at the Sun during solar eclipse.	
	2. The presence of two pieces of lead in the electric lamp.	

Complete the following sentences :

- 1. In the solar eclipse, is found between the Sun and
- 2. The electric shock occurs as a result of passing of through the human body.
- 3. The root hair is characterized with wall.
- 4. Wheelbarrow is considered as class lever.
- 5. All light bulbs are connected in in the house.
- 6. Lunar eclipse occurs in the of the lunar month at a rate of per year.

3 C	hoose the correc	t answer :		
1	is a good	d conductor of electr	icity.	
	a _. Iron	b. Plast	ic c. V	Vood
2	. The root hair seci	retes ······substa	ance which helps in a	absorbing water.
	a. solid	b. sticky	c. f	lexible
3	. The stoma in a pl	ant is surrounded by	/····· guard cells	
	a. one	b. two	c. t	hree
4	. Force arm is som	etimes equal to resi	stance arm in	··· class levers.
	a. first	b. secoi	nd c. t	hird
5	. The filament of th	e light bulb is made	of	
	a. iron.	b. copp	er. c. t	ungsten.
			t the arm of the resi	stance = 5 cm.
	3] What happens	in each case?		
	1. The electric la	amps contain atmos	oheric air.	
		re is put out by wate		
	C] Correct the unc	derlined words:		
	1. Root hair abs	orbs most water by	selective permeabil	<u>ity</u> . (······)
	2. The manual b	proom is a second o	lass lever.	()
	3. Stomata are v	widely spread on the	e <u>upper</u> surface of lea	af. ()
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Ansv	ver the following	questions :		
$\begin{bmatrix} 1 \end{bmatrix}$	A] Complete the f	ollowing sentence	3 :	
	1. There are two	o types of electric co	nnectionan	d
•	2. In the first cla	ss levers the fulcrur	n is between ·····	and
	The solar eclinationstraight line.	ipse occurs when ····	, and	the Earth in one

	What is meant by?			
		cess:		• • • • • •
[A]	Choose the correct ar	nswer:		
	1. The filament of the e	lectric bulb made from		
	a. iron.	b. copper.	c. tungsten.	
	2. The age of root hair i	is		
	a. short.	b. medium.	c. long.	
	3. From the second class	ss levers ······		
	a. scissors.	b. nutcracker.	c. coal holder.	
	4. The lunar eclipse phe	enomena occur at the	•••••	
	a. end of lunar montlc. beginning of lunar	h. b. middle of lunar n month.	nonth.	
ſΒΊ	What happens when	?		
15 w	1. Put out electric fire w			
				• • • • • •
	2. The osmosis process	s not found in the plant.		
				* * * * * * *
[A]	its arm length 50 cm., calculate the resistan		quals 100 Newton,	anc
be book a	1 50 4 4 (1) and 400 in Summ	4 of the following states	mante :	
[B]		it of the following state	ments :	
[B]	1. Plastic is a good cor	nductor of electricity.		(
[B]	 Plastic is a good cor The time of solar ecl 			(
[B]	 Plastic is a good cor The time of solar ecl seconds. 	nductor of electricity. lipse not increase more t	han 7 minutes and few	(
[B]	 Plastic is a good cor The time of solar ecl seconds. 	nductor of electricity.	han 7 minutes and few	(
***************************************	 Plastic is a good cor The time of solar ecl seconds. If the force arm is sh 	nductor of electricity. lipse not increase more to norter than resistance arn	han 7 minutes and few	(
***************************************	 Plastic is a good cor The time of solar ecl seconds. If the force arm is sh Write the scientific te	nductor of electricity. lipse not increase more the content of the content increase more the content increase more the content increase more the content increase more than resistance are content increase.	han 7 minutes and few n, the lever saves effort. atements:	
***************************************	 Plastic is a good cor The time of solar ecleonds. If the force arm is shear expected. Write the scientific te Substances not allow 	nductor of electricity. lipse not increase more the content than resistance are the following states the electric current to proceed the content to proceed the	han 7 minutes and few n, the lever saves effort. atements: bass through. (
***************************************	 Plastic is a good cor The time of solar ecl seconds. If the force arm is sh Write the scientific te Substances not allow It happens for the Moor 	nductor of electricity. lipse not increase more the content than resistance are serm for the following state with electric current to pure when it enters completely in	han 7 minutes and few n, the lever saves effort. atements: bass through. (
***************************************	 Plastic is a good cor The time of solar ecl seconds. If the force arm is sh Write the scientific te Substances not allow It happens for the Moor Two cells surround the 	nductor of electricity. lipse not increase more the content than resistance are the following states the electric current to proceed the content to proceed the	han 7 minutes and few n, the lever saves effort. atements: bass through. (

	2. We use inert gas ins	tead of air in the electric	c iamp.
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swer	the following questio	ns:	
[A]	Complete the followin	g sentences :	
		_	between and
	2. Root hair wall is ······		
;	3. There are two types	of injuries resulting fron	n the improper use of electric
	which area	nd ·····	
•	4. In the lunar eclipse,	····· comes betwee	n the Sun and ·····
[A]	Choose the correct ar	iswer:	
	1. From the examples o	of third class levers	
	a. sweet holder.	b. scissors.	c. nutcracker.
:	2is a good co	enductor of electricity.	
	a. Plastic	b. Iron	c. Wood
	3. ·····absorb wate	er and mineral salts from	n the soil.
	a. Leaves	b. Root hairs	c. Stems
•		np connected in paralle tht intensity of this bulbs	I with several lamps in the
	a. decreases.	b. increases.	c. remains as it.
[B] V	What is meant by?		
,	1. Selective permeabilit	y.	
	2. lever.		

	3. Type of levers that always does not save effort.	()
	4. A structure in the plant, where water passes through it from then to leaves.	root to stem,
[B	A force of 500 Newton affects a first class lever and its arm 10 cm., the resistance equals 200 Newton and its arm of res 20 cm., in this example is the lever in state of balance or no	istance equals
[C] What happens when ?	
	The whole Moon enters the shadow area of the Earth.	
	2. The electric lamps in the house are connected in series.	
4 [A	Correct the underlined words :	444-44
	1. Stomata are widely spread on the <u>upper</u> surface of the plan	it leaves.
		()
	2. Looking to the <u>lunar</u> eclipse causes several harms to eye.	
	 Electric fire occurs as a result of passing an electric curren human body. 	t through the
[B] The opposite figure represents an astronomical phenomer	non :
	1. Mention the name of it.	3 4
	2. Write the labels :	
		2
	③	
	4	